86-02248/

1984
ANNUAL
REPORT

ANIMAL HEALTH DIVISION

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ANIMAL HEALTH DIVISION

Division programs and services provided consultation and extension information, disease diagnostic results and inspection to help improve agricultural production, disease control and the production of safe quality food. The Division is responsible for the administration of the Livestock Diseases Act, the Meat Inspection Act, the Fur Farms Act, the Animal Protection Act and to a lesser extent, the Veterinary Profession Act. A new V eterinary Profession Act was passed by the legislature during the year, but still remains to be proclaimed following revision of regulations.

The Province was declared free of Brucellosis in cattle in 1984. Brucellosis remains as a problem only in the buffalo, in Wood Buffalo National Park.

The occurrence of rabies in skunks was much less than in previous years. A few positive skunks were found in the County of Warner and in the County of Newell. Rabies infection in a dog was associated with the same area as infection in skunks in the County of Newell. Five bats were found positive during the year.

The drought in southern Alberta resulted in very poor feed from dry pastures, causing vitamin A deficiency to occur in cattle. Normally, the grass is green and supplies plenty of vitamin A.

Considerable investigational work was done on farms close to a sour gas well blowout near Claresholm, in order to attempt to determine if any adverse effects had occurred. Fortunately, the gas well did not contain a very high percentage of H_2S.

Fees for laboratory submissions of small animals were established in February, and a considerable decline in the submission rate resulted.

The Veterinary Student Summer Employment Program was successful in helping provide work experience.

PATHOLOGY BRANCH

Submissions to the Pathology Branch dropped 23.9% in 1984 to 9779 submissions. The main reason for this decrease was the institution of fees for necropsies and laboratory tests for companion animals. Submissions from other species likely dropped due to weak livestock prices. Services provided to other institutions, government agencies remained about the same. Extension activities included Agrinews, Agrifax and scientific publications, as well as presentations on calf scours to clients submitting to the laboratory.

In cattle, Bovine Virus Diarrhea and Infectious Bovine Rhinotracheitis occurred in feedlots causing extensive losses and in several dairy herds. Following the infections due to Shipping Fever in feedlots, we have been seeing an increase in interstitial pneumonias. These tend to be chronic and unresponsive to treatment. Their association with specific etiologic agents such as viruses have been difficult to prove.

Throughout the year cattle seem to find their way into a variety of toxicants. Carbofuran and Lindane treated rapeseed caused numerous deaths after abandoned piles of seed grain were consumed. Diesel fuel, ethylene glycol and other oil related products caused death in the farm machinery yard as well as at oil well sites. Lead poisoning due to abandoned automotive batteries remains a major problem on pasture. One

episode of urea toxicity occurred due to an error in aerial application.

In pigs, Streptococcus suis and Transmissible gastroenteritis were more apparent in the laboratory submissions. Scours and respiratory disease also remain common submissions.

In poultry, infectious bursal disease was responsible for problems in broiler operations. A survey of breeder flocks indicated a vaccination problem and following discussions with industry, changes were made.

A new syndrome, perirenal hemorrhage, was diagnosed in turkey flocks. It is quite common causing elevated mortality in growing birds.

Infectious bronchitis was seen in layers and broiler flocks. Vaccination recommendations were prepared and presented to a variety of producer meetings.

Reproduction section began to assess intrauterine growth retardation from specimens obtained in the postmortem room and from a local packing plant. Ureaplasma genital infections began to occur in 1983 and an information bulletin and pictorial were released to Alberta's veterinary clinics.

The branch staff continued to attend a variety of courses in personnel development and in various aspects of computers.

REFERENCE LABORATORIES BRANCH

The main functions of this Edmonton-based laboratory branch were to provide a fast and accurate diagnostic support service to Edmonton pathologists, Health Management Branch veterinarians, private practitioners and livestock producers and to provide a province-wide reference laboratory service, particularly in the areas of virology, serology, electron microscopy, and toxicology. The total workload handled by the branch involved 79,290 specimens, which constituted a 6% overall increase compared to 1983, in spite of decreased submissions as a result of companion animal charges. The specimen increase probably resulted from increased work on projects and disease investigations.

General:

Two branch positions, as part of divisional allotment, were designated for abolishment together with transfer of human toxicology work to Hospitals and Medical Care.

A tight budget for supplies for the 1984-85 fiscal year resulted in drastic reductions in the purchase of materials and supplies, which had an adverse impact on service delivery. An important factor contributing to the fiscal problems was the noticeable increase in project and disease investigation workload demand.

International, national and internal Quality Assurance programs continued to be strongly utilized in the branch, particularly in toxicology and bacteriology-mycology sections and

was actively instituted in virology-serology section.

Practically all branch personnel were involved in organizing, preparing and presenting a three-week "wet" workshop to ten visiting Indonesian veterinarians who were sponsored by Olds College during their Canadian visit.

Toxicology Section

The specimen load was 10,401 which represented a 13% decrease from 1983, primarily due to substantial decreases in submissions to veterinary toxicology (57%) and human toxicology (12%) and in spite of substantial increases in water analysis (25%).

This was an eventful year for the section. Dr. Brockman resigned as section head. Dr. Beck (Pathology Branch) attended to case reporting in veterinary toxicology while Dr. Pantekoek administered the section during the search for a veterinary toxicologist.

Two expensive atomic absorption spectrophotometers met with an unfortunate and freak accident, severely limiting veterinary toxicology analytical capability and interfering with other aspects of section workload. Return of full service capability took nine months.

Dr. Coppock (Vegreville Environmental Research Centre) spearheaded and sought involvement by this section for a potential mycotoxin problem in overwintered and unharvested grain in the Peace River region.

A chemical marker was introduced into government-issued strychnine to improve detection and identification of strychnine poisoning cases.

Histology-Electron Microscopy Section

The workload of 39,832 only represented a 1% decrease from 1983, in spite of a substantial submission decrease to Pathology Branch as a result of companion animal charges.

A substantial increase in the use of the electron microscope in diagnostic work is apparent.

Projects undertaken included: an immunohistochemistry project to detect Bovine Respiratory Syncytial Virus in fixed tissues in paraffin blocks; another immunohistochemistry project involved the study of canine pemphigus; a project to evaluate the effect of osmolarity on fixatives and buffers; developmental protocol for glycomethacrylate sectioning; histology project regarding dehydration in chicks, and ultrastructural aspects of mesangiocapillary glomerulonephritis in Finn sheep.

Virology-Serology Section

The workload was comprised of 9,172 specimens, which represented a 153% increase over 1983.

Dr. Papp-Vid attended and presented a paper at the Conference of Research Workers in Animal Diseases meeting at Chicago.

The Aleutian disease investigation survey this year involved two large batches of mink sera and for this purpose producers agreed to purchase the reagents involved in the testing.

At the request of Dr. Bruce Taylor (Pollution Control) and the Western Equine Encephalomyelitis co-ordinating committee this laboratory tested pools of Culex tarsalis mosquitoes from selected regions of the province for the presence of the virus. No WEE virus was isolated and no cases of WEE in horses were diagnosed in Alberta this year.

By request from Health Management Branch personnel and a separate request from Dr. Bradley (ADRI Lethbridge), serological surveys were conducted in bovine blood for the presence of antibodies to Bovine Respiratory Syncytial Virus. In protocol development: non-specific reactions in the ELISA technique for Infectious Bovine Rhinotracheitis testing were reduced to nil and a commercially available human "Rotozyme" testing kit proved to be useful in testing for bovine and porcine Rotavirus antigens and is now incorporated in our diagnostic capability.

Bacteriology-Mycology Section

The workload involved 19,865 specimens which was a 4% increase over 1983.

A meeting with provincial and federal poultry representatives concerning fluff sampling count discrepancies between results from Alberta and some other provinces resulted in a re-evaluation of

accepted culture protocol. Protocol developments included: Mycoplasma species identification capability for M. hyorhinis and progress with M. bovis and M. gallisepticum; K99 E. coli diagnosis by means of the indirect fluorescent antibody technique (IFAT), utilizing commercially available monoclonal antibody; IFAT to identify Leptospira pomona and diagnosis for the presence of Clostridium difficile by conventional protocol. Projects in progress or finalized included: a pilot study involving the microbiological method for antibiotic residue testing in slaughterhouse meat; bacteriology of Bighorn sheep pneumonia; a Brucella ovis survey in sheep testicles; a continued survey for bacterial pathogens in relation to health status of experimental rats, and a survey for Leptospira in bovine fetuses.

The Edmonton laboratory handled a total of 4,237 specimens from 460 submissions to the Poultry Flock Health program. The presence of various Salmonella bacteria species was observed in 20/94 (21%) submissions of litter, nesting material and feed; 5/149 (3%) fluff submissions; 4/21 (19%) submissions of eggs; 3/97 (3%) chickpads submissions and 13/99 (13%) cloacal swab submissions.

Examination of 387 submissions, consisting of 2,889 milk samples, was carried out for mastitis. Three thousand nine hundred fifty-eight bacterial isolates were grown on culture from which 1,542 bacterial agents were considered to be potential or actual pathogens.

The predominance of selected bacterial pathogens was: Staphylococcus aureus in 155/387 submissions (40%); Streptococcus dysgalactiae in 75/387 submissions (19%); Streptococcus uberis in 69/387 submissions (18%); Streptococcus agalactiae in 40/387 submissions (10%); Corynebacterium pyogenes in 38/387 submissions (10%), and Streptococcus MG intermedius in 16/387 submissions (4%).

REGIONAL LABORATORIES BRANCH

The Regional Laboratories Branch was responsible for the operations of laboratories located in Airdrie, Lethbridge, and Fairview. These laboratories offered a diagnostic service to livestock and poultry producers and their veterinarians from Red Deer south and from Valleyview north. As well, consultation on matters of disease and its prevention was provided to livestock and poultry producers and their veterinarians. Field trips were made to investigate unusual or serious disease problems.

The drought conditions were responsible for the appearance of disease conditions not regularly encountered such as nitrate-nitrite poisoning in cattle, vitamin A deficiency in cattle on pasture, stinkweed poisoning and polioencephalomalacia associated with high sulphate water.

Lungworm infection of cattle was of concern in cattle on pasture in the north of the province. Cool, wet weather in September favored the development of this parasite. The somatic cell count program brought about an increase in milk samples for culturing. Salmonella infection was uncovered in one feedlot and was brought under control promptly. Salmonella dublin infection was found in one calf in a vealer operation. Fortunately, the infection did not spread to other animals.

Haemophilus pleuropneumoniae infection continued to be a serious problem in various swine operations. Leptospirosis was the cause of abortions in a few hog operations in the south central and south

regions. Coccidiosis of piglets was diagnosed in the Peace River Region for the first time although this disease has been diagnosed previously in other areas of the province.

Infectious Laryngotracheitis was diagnosed in a few fancy flocks and in a small layer flock.

Personnel from the Lethbridge laboratory assisted in the investigation of the sour gas leak in the Claresholm area.

The Airdrie laboratory continued their involvement in instructing Animal Health Technician students from Olds College as did the Fairview laboratory with students from Fairview College and the Northern Alberta Institute of Technology.

HEALTH MANAGEMENT BRANCH

In order to more correctly portray the present goals and objectives of the Branch, the name was changed to Health Management Branch in 1984. The major responsibilities of the Health Management Branch continued to be prevention and control of diseases in livestock herds, the administration of legislated animal health programs, safeguarding human health by control of designated diseases and enforcement of regulations for sale of livestock medicines. Techniques for disease prevention and improved production were emphasized to livestock producers and veterinarians in Alberta. Legislative programs included livestock inspection at auction markets, livestock medicine outlet licencing, licencing of fur farms and designated communicable disease control. Disease prevention and control programs were provided by both the Epidemiology and Livestock Inspection sections. Research projects were also initiated and carried out during the year.

The demand for extension activities and programs from this Branch remained high during 1984. Livestock health and disease information was provided to livestock producers by all Branch veterinarians and many private sector veterinarians. Veterinarians in private practice throughout Alberta were also extensively utilized for auction market inspections,

community pasture inspections, swine herd health visits, and disease investigations.

ARDA Veterinary Clinics

The six ARDA veterinary clinics in western and northern Alberta continued to provide a full range of veterinary service. The clinics at Edson, High Prairie, and Fairview continue to be strong and viable practices. Additional income support was required at Valleyview, Manning, and Fort Vermilion in order to retain practitioners in these areas. A mileage assistance program was continued to encourage greater use of the veterinary services in I.D. 23.

Preconditioning Program

Participation in the Alberta Certified Preconditioned Feeder Program increased substantially in 1984 in response to the drought conditions and the provision of a free veterinary farm visit for vaccinating and certification of the calves. There were 17,124 calves certified with 9,150 sold at 12 monitored sales in 11 locations in Alberta. Producers received average additional prices of $4.67 cwt for preconditioned steers and $4.68 cwt for heifer calves in 1984. The average days weaned before sale was 49 days. Preconditioned calves have been shown to gain significantly more weight than those

not weaned. The proportion of all preconditioned calves which became sick and died in feedlots after sale in 1984 was 6.9% and 0.7%, respectively compared to 14.4% and 2.2% for regular calves surveyed. Brian Harris served as ACPF Coordinator assisting with administration of the ACPF program.

Research Projects

The Bovine Respiratory Disease Project, funded by Farming for the Future, was continued as a joint project between Alberta Agriculture and Veterinary Infectious Disease Organization. Dr. Susan Wilson supervised four full time technicians who collected and entered data from the feedlots on the study in 1984. The objective of the study is to determine the risk factors which are associated with the development of respiratory disease in feedlot cattle in Alberta.

Trials to assess the efficacy of a pinkeye, pasteurella pneumonia and porcine parvovirus vaccines were commenced with the cooperation of veterinary practitioners and cooperating livestock owners in Alberta. The pinkeye trial was funded by the Alberta Department of Agriculture Research fund and was completed during 1984. It involved vaccination of 2151 cattle in ten locations including two community pastures. The results indicated that although pinkeye caused a 10% reduction

in weight gain, the vaccine was not effective in reducing the occurrence of pinkeye. The pasteurella trial was funded by VIDO and Branch funds and involved 2218 calves at five locations. The results will be summarized early in 1985. Before commencing the porcine parvovirus vaccine trial the serological status of the sows in eight herds in southern Alberta was determined and revealed all eight to have high antibody titers even though four of them had been judged to be free of parvovirus based on the history and lack of clinical signs. Following final collection of the breeding data in 1985 analysis of the results will be carried out.

A Study of Livestock Medicines and Residues in Alberta

The study into livestock medicine use in Alberta which was initiated by the Honourable Dallas Schmidt, Minister of Agriculture in 1982, following the presentation of a brief by the Alberta Veterinary Medical Association was completed in 1984. The study was conducted under the direction of the Livestock Medicine Advisory Committee, established under the authority of the Livestock Medicine Regulations, and was funded by Alberta Agriculture. Verna Thompson, Doctor of Veterinary Medicine, was engaged to conduct the study and prepare the report.

EPIDEMIOLOGY SECTION

The responsibilities of the Epidemiology Section included administration of the Designated Communicable Disease and Dead Animals Regulations of the Livestock Diseases Act, assembling information regarding disease prevalence in food producing animals, conducting and supporting extension activities, conducting detailed investigations of disease problems in the field and administration of the Swine Herd Health Program. Veterinary practitioners again participated in a number of local extension meetings and use of the Branch slide kit and film library as a means of obtaining resource materials continues to increase. In addition, practitioners conducted most of the inspections in the commercial section of the Swine Herd Health Program and occasionally carried out disease investigations.

Dr. Schipper left at the end of August to pursue a Masters degree in epidemiology at the University of Guelph on educational leave. Dr. Stewart Bauck, who has recently completed the requirements for a Masters Degree at the University of Saskatchewan, agreed to fill this position in a temporary capacity.

Epidemiology and Communicable Diseases

Development of an overall disease surveillance system is progressing slowly and in the meantime more detailed information is being collected on those diseases which are of particular interest to the Branch. These include those diseases named in the Designated Communicable Disease Regulation and the following table shows the number of positive diagnoses for each of these diseases for 1984.

Cattle		Swine	
Leptospirosis	3	Leptospirosis	2
Salmonellosis	8	Salmonellosis	2
Sheep		**Poultry**	
Brucella ovis	0	ILT	17
Footrot	12	Salmonellosis	7

In each case, appropriate action was taken to ensure that the outbreak was brought under control and spread to other premises did not occur.

The Brucella ovis survey was continued throughout the year with the cooperation of ADRI Lethbridge and primarily to assist them in evaluating serological tests for this disease. The results of the BVD survey which was carried out in 1983 were made available to large animal practitioners. A small serological survey for bovine respiratory syncytial virus was initiated in the fall of 1984.

Extension

Extension in its various forms remains a very important responsibility of the Branch. This is primarily aimed at livestock producers and meetings were addressed on 66 occasions. In addition, two lectures were given to students at the University of Alberta; six to students at the Western College of Veterinary Medicine, Saskatoon; and four to students at the Regional Colleges. Presentations were also made on three occasions to professional meetings, one to a group of Department staff; and one to a group of SPCA inspectors. The highest proportion of meetings this year were related to swine 35, while 18 concerned beef cattle; 17 for dairy cattle; 2 for sheep; 1 for horses; and 7 on general topics.

Several articles were prepared for publication in various trade journals, including a regular column in the Western Hog Journal. Several telephone interviews were conducted for radio broadcast or publication. A number of fact sheets were either prepared or reviewed and updated when necessary. Several were included in the Alberta Pork Production Handbook.

The slide kit library was again expanded during the year with the help of a STEP student during the summer months and a technician on wages over the winter. Veterinary practitioners continue to rely on this as a valuable resource to assist them in local extension efforts. Fifty-eight slide kits were borrowed by practitioners during 1984, the greatest demand

being from those in Regions 3 and 4 who were conducting local study groups in connection with the Animal Health Home Study Course.

The Animal Health Home Study Course was offered in Regions 3 and 4. This was the last year for the course as all regions of the province have now participated. This year, total registration was 997, down slightly from the previous two years. The beef cattle option was the most popular (79% of the participants selecting this option) with the horse option second (45% of participants) and the swine option third (24% of participants). As in previous years, the order of selection of the remaining options was dairy, poultry, sheep and goats. Twelve regional seminars were held at various locations throughout the two regions and were generally well attended. Veterinary practitioners in cooperation with the local District Agriculturists conducted numerous local meetings to further enhance delivery of the course.

Disease Investigations

Indepth investigations of disease problems were carried out by members of the Branch on 27 farms. In many cases, these were referred by practicing veterinarians who were seeking assistance with the problem. In some cases, more than one visit was required to collect further data, or specimens, or to monitor progress of the problem.

Of these investigations 5 were related to beef cattle; 4 to dairy cattle; 1 to sheep; and 17 to swine. Feedlot bloat, respiratory disease, and diarrhea in calves were among the problems seen in beef herds, whereas mastitis was the problem in three dairy herds. One farm was visited because salmonellosis had recently been diagnosed. The investigation relative to sheep was on a community pasture where footrot had successfully been eradicated. A variety of disease problems were investigated in swine with hemophilus pleuropneumonia being the most significant. Other problems seen included; neonatal diarrhea, coccidiosis, splay leg, abortion in sows, poor growth rates, and high death losses in piglets and weaners.

Swine Herd Health Program

Again in 1984 there was a significant increase in enrolment in the commercial section as producers continue to see the benefits of paying closer attention to health and the number of veterinary practitioners who have an interest in swine continues to grow. Demand for enrolment still exceeds the resources available, however, the situation should improve dramatically in 1985 as a large proportion of commercial herds will have completed their four year term of enrolment and will no longer be eligible. This provision was introduced in 1981 to allow a larger number of herds to participate and hopefully,

producers will have been encouraged to continue working with their veterinarian.

Health Management veterinarians conducted the bulk of the inspections in the seedstock section and also the initial inspection on all new herds to ensure that they were eligible. Major swine shows and sales continued to rely on the Branch to monitor the health of the herds involved. On two occasions, a health certificate was not issued because of the presence of an acute infectious disease on the premises. Allocation of ROP Test Station space is also dependent upon a satisfactory health status, but no herds were prevented from test station use during 1984.

The general health status of herds enrolled on the program remains good. The majority of disease conditions seen relate largely to deficiencies in environment and management and reinforces the concept that diseases of swine are no longer due to a single infectious agent. The publication of snout and lung scores has resulted in a much greater awareness of resiratory disease by all sectors of the industry and clinical evidence of these diseases in enrolled herds is much less evident.

Hemophilus pleuropneumonia has continued to be a major concern to the swine industry, because it can cause significant economic losses and is difficult to control. Fortunately all seedstock herds enrolled on the program remain free of evidence

of this disease. Mange continues to be a widespread problem, however, Ivermectin is proving to be a very effective treatment for all external parasites. Other diseases of concern over the year were: porcine parvovirus; transmissible gastroenteritis; Streptococcus suis Type II; coccidiosis; and intestinal adenomatosis.

The Advisory Committee met in February when a major change in the method of appointing representation to the committee was approved. The Minister, in future, will appoint three members every two years and the Alberta Swine Breeders Association will now only appoint four members also for a two year term, but alternating with the government appointees. The number of minimal disease herds participating on the program has been increasing in recent years and hopefully these changes will allow for some representation from this group.

Summary of Activities for 1984

During the interval January 1, 1984 - December 31, 1984:

Number of seedstock herds increased from 60 to 64

Number of commercial herds increased from 134 to 172

Total membership increased from 194 to 236

Number of herds deleted from the program - 18

Number of herds added to the program - 60

Number of herd health visits by HMB staff - 168

Number of herd health visits by private practitioners - 420

Number of snouts examined for scoring - 1,813

Weighted mean snout score - 0.77

Number of lungs examined for scoring - 3,214

Weighted mean lung score - 0.55

LIVESTOCK INSPECTION SECTION

Auction Markets

Forty-seven auction markets were licenced for full-time operation and thirteen restricted licences were issued. Restricted licences are mainly horse sales and fall calf sales sponsored by local producer associations. Veterinary inspection was provided at all of these. Two livestock markets were sold during the year and put under new management. Great improvements in facilities in one northern market occurred following the purchase by new owners. One northern market closed upon the death of the owner in October.

During 1984, 2,009,135 animals were inspected up only slightly from last year but the number of sales was down marginally from 3,483 in 1983 to 3,464 in 1984. The most common cause for rejecting cattle at auction markets was cancer eye, respiratory and febrile conditions, lumpjaw, lameness, and eye infections. In swine, the most common reasons for rejection were rhinitis, underweight piglets, and mange.

Footrot in sheep was the leading cause for rejection of this species. All sheep rejected for footrot are either sent to slaughter or, if they return home, a quarantine is issued under the authority of the Sheep Footrot Regulation to the owner. This quarantine prohibits the sale of sheep for any reason except slaughter and remains in effect until footrot is shown to be eradicated in the flock.

Assembly Stations

Fifty-four stations were supervised for operational standards and sanitation. The most frequent cause of complaints is lack of protection for pigs from the elements. To date, operators have responded well to our request for improvements.

Community Pastures

Veterinary inspection of all livestock at entry was again provided at 45 different pasture locations in 1984. The pastures included 31 provincial grazing reserves and 14 private pastures. A total of 190 inspections were conducted to inspect a total of 106,957 cattle and 10,753 sheep. One new provincial grazing reserve at Rocky Mountain House opened and veterinary inspection was established.

There were few major disease problems on the various pastures this summer. Very few examinations of live animals on

pasture were conducted. Thirty-eight post-mortems were performed by veterinary practitioners. The most common causes of death on the pastures confirmed by post-mortem, were pneumonia and abomasal ulcers in calves.

The Medicine Lake Provincial Grazing Reserve maintained its sheep footrot free status with considerably less veterinary effort than in previous years.

Livestock Medicines

The purpose of maintaining licenced outlets under these regulations was to provide farmers and ranchers with a convenient source of certain livestock medicines. Regular supervision was provided to ensure they met the requirements of the regulations. In 1984, 265 premises were licenced and monitored by one full time inspector.

Considerable work was done in responding to the Thompson report on Livestock Medicines and Residues in Alberta. Major proposals for revision of the Livestock Medicine Regulations were developed by the Branch in response to this study.

Fur Farms

The Section continued to maintain its responsibility for licencing fur farms.

The price of fox pelts is still high causing a great deal of interest in fox farming. Five new fox farms were inspected,

approved, and licenced bringing the total licenced fox farms to 21. The annual fox show and education day of the Alberta Fox Breeders Association was again a great success.

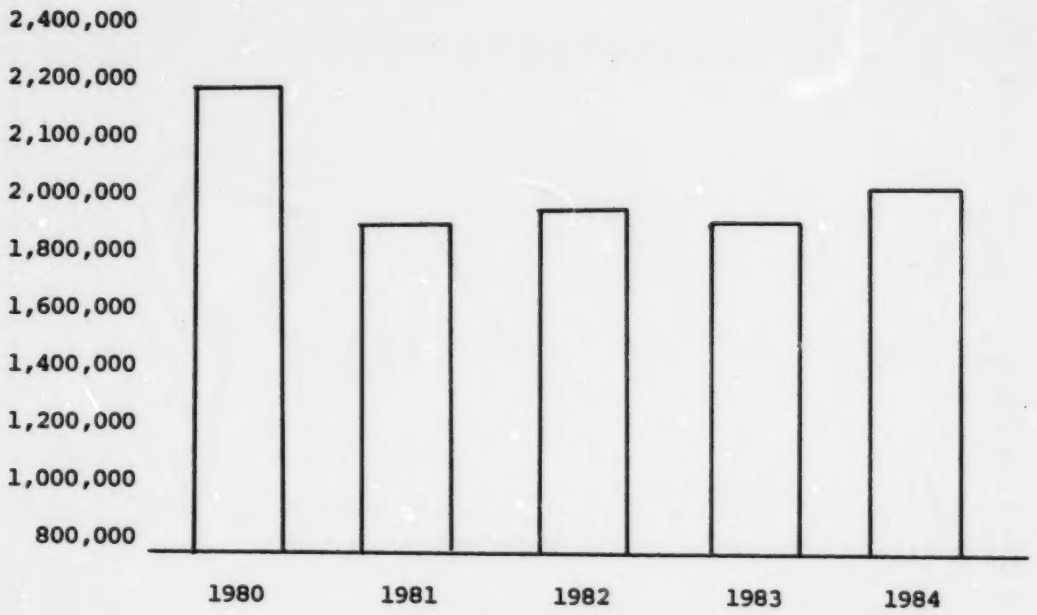
Mink pelt prices were up from an average of $30.00 in 1983 to $39.60 in 1984. There were 9 licenced mink farms. In total, 44 fur farm licences were issued this season, including 12 chinchilla licences.

The trial use of melatonin implants which shorten the time necessary to grow the mink to pelting prime has produced quite favorable results. The early and cold onset of winter this year created significant losses to some producers.

The Fur Farm Act was revised and amended to be consistent with the modern fur industry and the new Wildlife Act.

1980 - 1984

TOTAL NUMBER OF LIVESTOCK INSPECTED AT AUCTION MARKETS



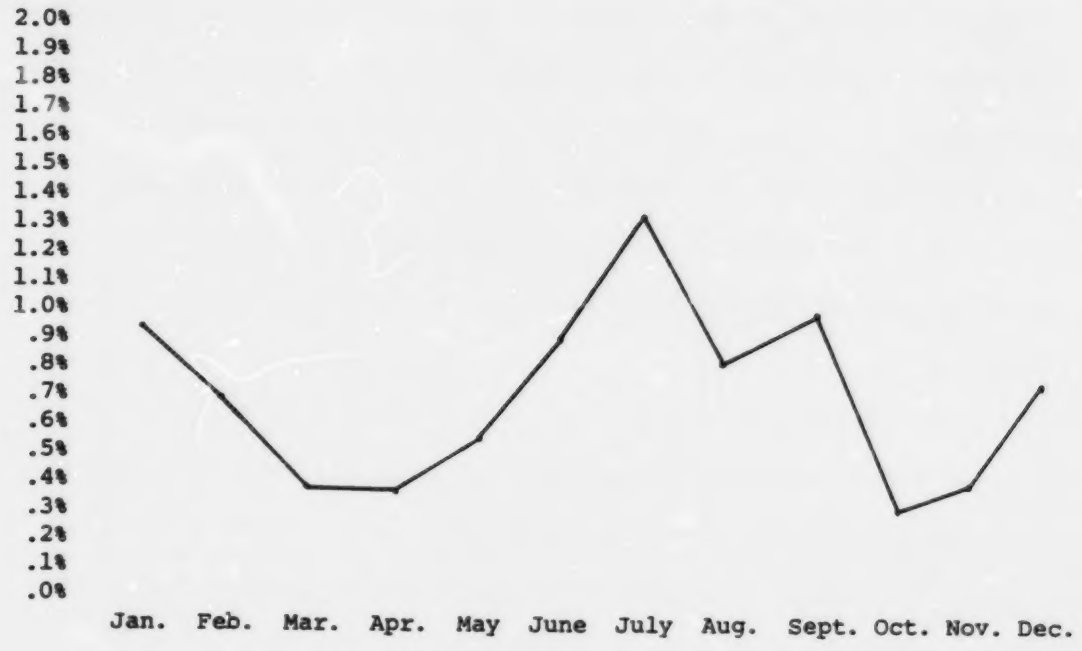
SUMMARY OF RESULTS OF VETERINARY INSPECTION - 1984

No. of Auction Markets - 44

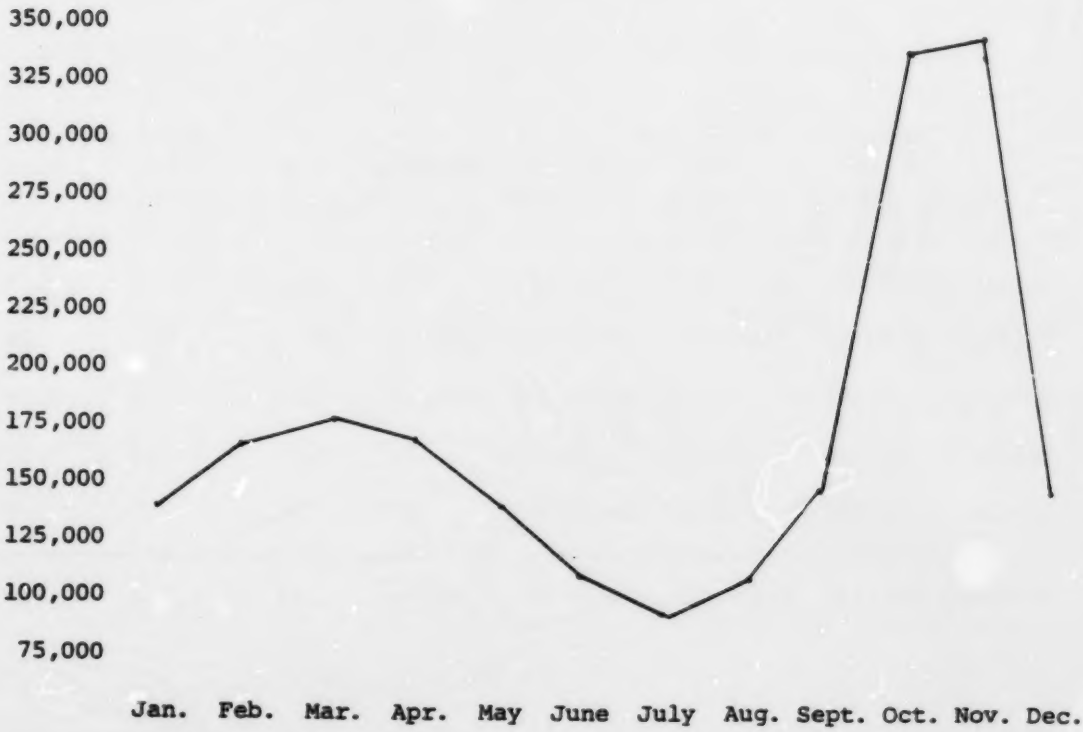
No. of Sales 3,464

	Inspected in 1984	Inspected in 1983	Change % of 1983	Rejected At Sales	% Reject	Slaughter Only Animals	% Slaughter Only
Cattle	1,637,988	1,597,814	2.5% inc.	2,890	.2%	3,441	.2%
Swine	315,867	261,853	20.6% inc.	7,309	2.3%	625	.2%
Sheep	29,343	33,641	12.8% dec.	104	.3%	682	2.3%
Horses	19,146	17,577	8.9% inc.	41	.2%	16	.01%
Goats	6,791	5,350	26.9% inc.	27	.4%	0	0
TOTALS	2,009,135	1,916,235	4.8% inc.	10,371	.5%	4,764	.2%

AVERAGE REJECTION RATE FOR ALL ANIMALS INSPECTED



TOTAL ANIMALS INSPECTED BY MONTH IN 1984



CATTLE
Reasons for Rejection/Slaughter

	1980		1981		1982		1983		1984	
	No.	%	No.	%	No.	%	No.	%	No.	%
Abscess	120	2.3	88	1.6	166	2.4	143	2.5	107	1.7
Arthritis	62	1.2	40	0.7	82	1.2	87	1.5	126	2.0
Cancer Eye	1370	26.9	1541	27.3	1787	25.8	1325	23.2	1569	24.9
Enteritis	24	0.5	42	0.8	129	1.8	158	2.8	194	3.1
Febrile	---	---	---	---	146	2.1	508	8.9	549	8.7
Footrot	69	1.3	81	1.4	125	1.8	124	2.2	65	1.0
Lame	---	---	---	---	463	6.7	576	10.0	602	9.5
Lice	11	0.2	21	0.4	41	0.6	41	.7	30	.5
Lumpjaw	380	7.5	442	7.8	715	10.3	536	9.4	584	9.2
Mastitis	92	1.8	139	2.5	201	2.9	136	2.4	147	2.3
Metritis	17	0.3	9	0.1	12	0.2	0	0	0	0
Navel Infection	139	2.8	177	3.1	148	2.1	132	2.3	160	2.5
Pinkeye/Eyes	228	4.5	351	6.2	264	3.8	316	5.5	429	6.8
Pneumonia	306	6.0	457	8.1	819	11.8	720	12.7	752	11.9
Ringworm	30	0.6	28	0.5	59	0.9	50	.9	182	2.9
Under Age	23	0.4	30	0.5	22	0.3	21	.4	47	.7
Physical Abnormalities	---	---	---	---	---	---	85	1.5	46	.7
Bloat	---	---	---	---	---	---	87	1.5	37	.6
Cardiac	---	---	---	---	---	---	49	.9	33	.5
Central Nervous Disorders	---	---	---	---	---	---	35	.6	15	.2
Distress	---	---	---	---	---	---	143	2.5	155	2.4
Hardware	---	---	---	---	---	---	3	0	9	.1
Urogenital	---	---	---	---	---	---	223	3.9	228	3.6
Warts	5	0.1	38	0.7	6	0.1	0	0	0	0
Other Diseases	1702	33.4	1918	33.9	1745	25.2	227	4.0	267	4.2
TOTALS	3821	100.0	5094	100.0	5655	100.0	5725	100.0	6333	100.0

S W I N E

Reasons for Rejection/Slaughter

	1980		1981		1982		1983		1984	
	No.	%	No.	%	No.	%	No.	%	No.	%
Abscess	---	---	---	---	17	0.5	---	---	---	---
Arthritis	252	5.1	293	6.4	192	5.1	194	3.3	447	5.7
Dermatitis	32	0.7	12	0.3	6	0.2	16	.3	67	.9
Enteritis	4	0.1	50	1.1	40	1.1	61	1.0	206	2.6
Lame	---	---	---	---	28	0.8	82	1.4	89	1.1
Mange	738	15.0	714	15.6	799	21.1	1342	23.1	1839	23.2
Pneumonia	99	2.0	140	3.1	30	0.7	159	2.7	356	4.5
Rhinitis	1624	33.0	1413	30.8	1285	34.0	1798	30.9	2016	25.4
Underweight	1525	31.0	1397	30.5	1030	27.2	1820	31.3	2157	27.2
Central Nervous Disorders	---	---	---	---	---	---	---	---	11	.1
Distress	---	---	---	---	---	---	99	1.7	310	3.9
Physical Abnormalities	---	---	---	---	---	---	56	1.0	31	.4
Coccidiosis	---	---	---	---	---	---	---	---	110	1.4
Parasitism	---	---	---	---	6	0.15	1	.01	23	.3
Other Diseases	626	12.8	485	10.6	347	9.2	187	3.2	258	3.3
TOTALS	4915	100.0	4581	100.0	3781	100.0	5815	100.0	7920	100.0

SHEEP

Reasons for Rejection/Slaughter

	1980		1981		1982		1983		1984	
	No.	%	No.	%	No.	%	No.	%	No.	%
Abscess	2	1.1	1	0.2	6	0.8	21	2.9	1	.1
Arthritis	3	1.7	---	---	8	1.1	0	0	2	.2
Distress	---	---	---	---	5	0.7	23	3.2	2	.2
Footrot	76	43.4	303	56.1	572	78.9	550	75.7	680	86.5
Lame	---	---	172	31.9	97	13.4	11	1.5	28	3.6
Mastitis	---	---	1	0.2	4	0.6	7	1.0	5	.6
Pneumonia	1	0.6	2	0.4	30	4.1	5	.7	15	2.0
ORF	---	---	---	---	---	---	62	8.5	29	3.7
Brucella Ovis	---	---	---	---	---	---	---	---	11	1.4
Other Diseases	93	53.2	60	11.1	3	0.4	48	6.6	13	1.7
TOTALS	175	100.0	540	100.0	725	100.0	727	100.0	786	100.0

HORSES

Reasons for Rejection/Slaughter

	1980		1981		1982		1983		1984	
	No.	%	No.	%	No.	%	No.	%	No.	%
Influenza	5	7.7	3	7.0	2	3.5	1	2.1	2	3.5
Pneumonia	2	3.1	4	9.3	31	54.4	20	41.7	16	28.1
Lame	---	---	---	---	---	---	8	16.67	8	14.0
Foundered	---	---	---	---	---	---	---	---	5	8.8
Strangles	14	21.5	1	2.3	7	12.3	6	12.5	10	17.5
Other Diseases	45	67.7	35	81.4	17	29.8	13	27.1	16	28.1
TOTALS	66	100.0	43	100.0	57	100.0	48	100.0	57	100.0

GOATS

Reasons for Rejection/Slaughter

	1980		1981		1982		1983		1984	
	No.	%	No.	%	No.	%	No.	%	No.	%
Lymphadenitis	---	---	1	4.8	17	89.8	7	36.8	6	23.1
Mastitis	1	11.1	2	9.5	---	---	1	5.3	7	26.9
Pinkeye	---	---	---	---	---	---	---	---	---	---
Skin Disease	1	11.1	---	---	---	---	---	---	---	---
Other Diseases	7	77.8	16	76.2	2	10.5	6	31.6	11	42.3
Pneumonia	---	---	---	---	---	---	5	26.3	2	7.7
TOTALS	9	100.0	21	100.0	19	100.0	19	100.0	26	100.0

MEAT HYGIENE BRANCH

During 1984 the Meat Hygiene Branch employed two Supervisors, five Regional Supervisors, one Clerk Typist and 35 Inspectors on a full time basis. We also employed 20 Inspectors and 102 Veterinarians on a part time basis.

Inspection was provided for 74 red meat plants and 81 poultry plants including 74 operated by Hutterite Colonies.

Livestock inspected during the year included 44,093 cattle, 72,166 hogs, 8,075 sheep, 1,126 goats, 77 buffalo, 1 yak, 11,992 rabbits, 97,570 ducks, geese, turkeys and pheasants, 2,009,810 broiler chickens and 267,717 fowl.

Cattle slaughter was up marginally from previous years and hog slaughter increased about 15%. Sheep slaughter was down about 18%. Rabbit slaughter was down about 60%. This is accounted for by the fact that Alberta's only rabbit plant ceased to exist in January 1984. Poultry slaughter increased significantly. The only secondary processor to which we provided inspection achieved Federal status in 1984.

Carcass condemnations for the year were approximately 1% for cattle, .85% for hogs and 1.75% for other types of livestock. In addition, 52,635 portions of animals were condemned.

Enforcement activities continued during the year with approximately 75 possible violations being investigated. Most were found to be either not in violation, or were persuaded to cease their

activities. Four charges were laid against private citizens and all four were convicted. Investigational activities were curtailed towards the end of the year because of possible impending changes in the Regulations.

MEAT HYGIENE BRANCH

PLANTS UNDER INSPECTION: Red Meat - 74 POULTRY: Hutterites - 74 Others - 7

NUMBER OF INSPECTORS EMPLOYED: Full Time - 40 Part Time - 20

NUMBER OF VETERINARIANS EMPLOYED: By Day - 102

NUMBER OF ANIMALS INSPECTED:

CATTLE - 44,093

HOGS - 72,166

SHEEP - 8,075

GOATS - 1,126

OTHERS - 77 Buffalo
1 Yak

RABBITS - 11,992

DUCKS, GEESE, ETC. - 97,570

BROILERS - 2,009,810

FOWL - 267,717

CONDEMNATIONS:

	Cattle	Hogs	Sheep	Goats	Rabbits	Poultry	Others
Whole Carcass	485	613	26	67	224	41,702	1
PORTIONS:							
Heart	237	2,615	45	13	125	10	8
Liver	6,600	19,425	831	45	2,104	10	7
Kidney	2,937	1,234	34	3	286		4
Head	620	490	12	3			1
Tongue	586	452	8	3			1
Skin		24	1				
Meat Portions	814	930	31	4	1	12,085	

LIVESTOCK DISASTER AND PREDATOR INDEMNITY PROGRAM

These programs are administered in the division with decisions concerning indemnity made by committees operating in the Peace River district processing claims from that area and in Edmonton for claims originating in the balance of the province. The committees are comprised of representatives from the Animal Industry Division, Crop Protection and Pest Control Branch, Animal Health Division, Fish & Wildlife Division, Plant Industry Division and farmers actively engaged in livestock production.

The programs are to indemnify livestock producers who have suffered losses through "Act-of-God" incidents over which they have had little or no control, farmers suffering livestock losses through predation and beekeepers suffering bear damage. The Disaster portion of the program was phased out on April 30, 1984.

The following table will summarize the claims processed, monies distributed and a breakdown of predator claims for the calendar year, 1984.

	DISASTERS	PREDATORS	BEEYARDS
Claims:	6	938	15
Rejections:	4	231	1
Approvals:	2	707	14
Monies Paid	$16,684.15	$252,075.16	$11,505.20

Predator Claims

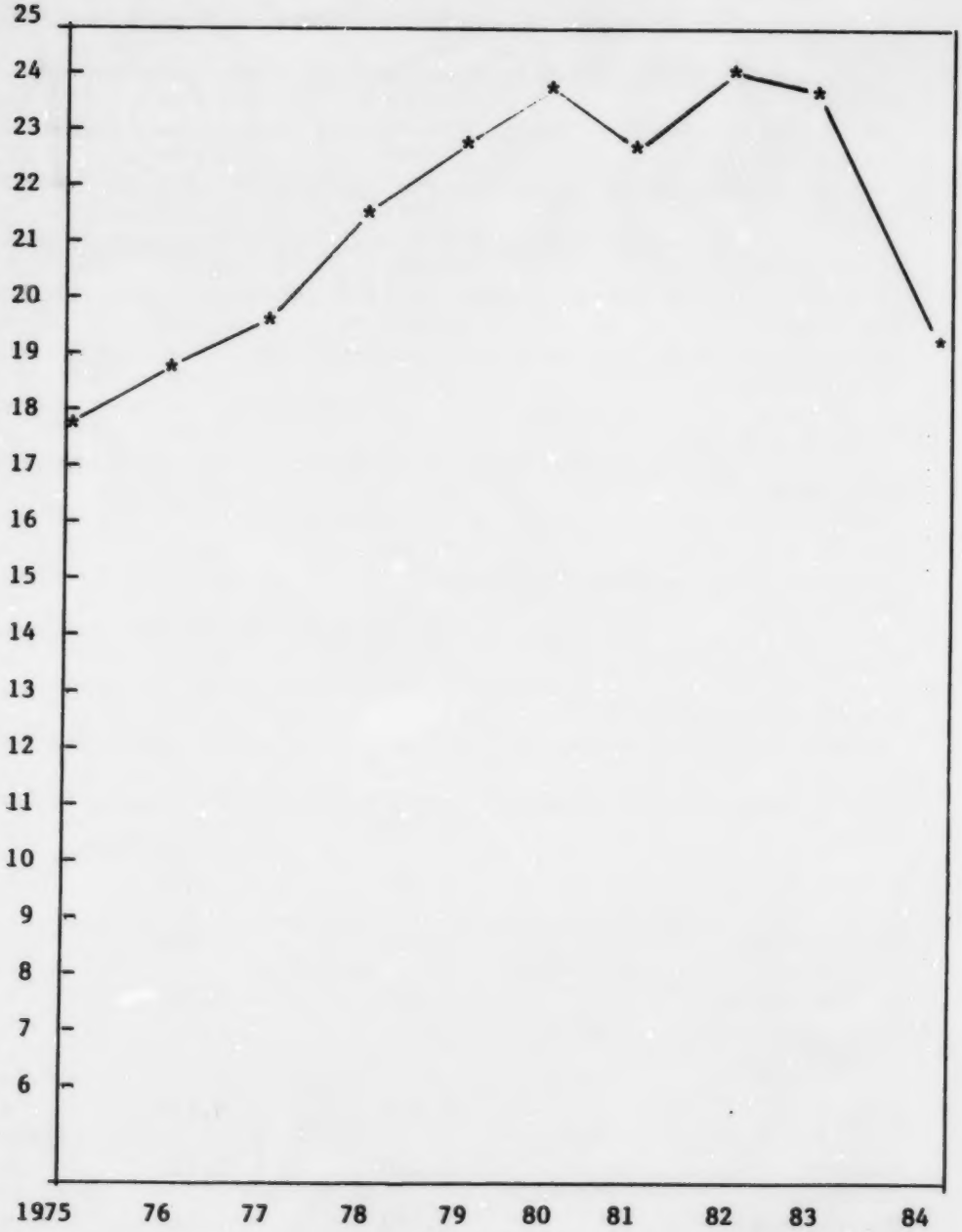
Bears	Coyotes	Wolves	Others
73	494	68	72

SPECIMENS EXAMINED

(By laboratory sections)

	1982	1983	1984
EDMONTON			
Animal	21,133	21,766	27,018
Poultry and Fish	17,851	15,080	15,645
Reproduction	2,896	2,778	2,581
Microbiology	25,663	22,681	29,037
Histology & E.M.	41,877	40,339	39,832
Parasitology	1,184	1,334	851
Toxicology	14,173	12,001	10,399
LETHBRIDGE			
Animal	8,587	8,414	7,758
Poultry and Fish	2,359	2,223	2,238
Microbiology	6,724	5,551	6,233
Histopathology	7,582	8,314	7,167
FAIRVIEW			
Animal	4,220	2,967	3,224
Poultry	391	538	302
Microbiology	4,356	2,634	2,044
Histopathology	3,788	3,588	5,709
AIRDRIE			
Animal	9,338	9,239	9,010
Poultry	9,290	5,157	3,992
Microbiology	8,450	8,047	9,189
Histopathology	19,386	23,122	22,757
	209,248	195,773	204,986

SUBMISSIONS IN THOUSANDS



Submissions refers to samples received from an individual case. A submission may consist of one or more carcasses, tissues, blood, or milk samples, etc.

PROMINENT DISEASES OF CATTLE

Respiratory disease in the form of pneumonia of all types was the most frequently diagnosed disease (1158 cases). This was followed in order of frequency by enteric disease (269), mastitis (247), deficiency related diseases (118), Hemophilus somnus encephalitis (104), enteric colibacillosis (73), coccidiosis (71) and bovine virus diarrhea(63). There were 24 diagnoses of Johne's disease. 139 anomalies were recognized.

The pathogenic bacteria recovered on culture most frequently were Pasteurella hemolytica, Staphylococcus aureus and E. coli.

Submissions of aborted feti numbered 1230 and 50 abortions were attributed to infectious bovine rhinotracheitis (IBR) virus infection.

Apart from coccidiosis, which showed a 300% increase, deficiency related diseases, which showed a 28% decrease and enteric disease a 53% decrease, the number of submissions of these prominent diseases was remarkably similar to those of 1983.

PROMINENT DISEASES - SWINE

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDTE	TOTAL
Enteric Colibacillosis	118	45	32	63	258
Pneumonia	261	110	28	139	538
Pneumonia caused by Hemophilus Pleuropneumonia	21	0	0	27	48
TGE (Transmissible gastroenteritis)	23	6	3	0	32

As was seen in 1983, pneumonia and enteric disease were diagnosed most frequently. There was a 100% increase in pneumonia diagnoses, partly due to increased surveillance of those registered in the swine herd health program and greater emphasis on herd health programs and attention to diseases affecting the economics of production.

There was a marked increase in Campylobacter and in Streptococcus infections. There were 2 diagnoses of abortion due to leptospirosis.

PROMINENT DISEASES - HORSES, SHEEP AND GOATS

In sheep, pneumonia was the disease most commonly diagnosed followed by polioencephalomalacia and caseous lymphadenitis. The greatest number of neonatal losses were associated with inadequate milk intake.

Corynebacterium pseudotuberculosis infection was the most frequently made diagnosis in goats.

In horses, pneumonia was the most frequent diagnosis followed by peritonitis and various intestinal accidents. Streptococcus sp were the most common bacteria recovered on culture followed by Actinobacillus sp and Cornyebacterium sp.

PROMINENT DISEASES - POULTRY

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Air Sacculitis (T)	18	8	-	2	28
Arthritis, Staph Aureus (C)	60	16	-	14	90
Chronic Respiratory Dis (C)	21	-	2	4	27
Coccidiosis (C)	32	14	1	2	49
Fowl Cholera (C & T)	7	9	3	3	22
Flip Over	64	12	7	1	84
Leg Weakness (C)	64	4	4	5	77
Leukosis (C)	10	10	1	12	33
Marek's Disease (C)	15	27	2	13	57
Omphalitis (C & T)	52	17	13	4	86
Septicem E Coli (C)	29	6	1	-	36
Tuberculosis	21	3	12	4	40

Turkey (T) Chicken (C)

*This does not include institution or University Research Submissions.

Acute death syndrome was the most common cause of barn mortality with culling due to twisted legs in broilers, the valgus varus deformities, continuing to be a major problem. An increase in diagnoses of gangrenous dermatitis, inclusion body hepatitis, and staphyloccocal pneumonia indicated a problem with breeder flock maternal antibodies. Breeder flock serology confirmed this and recommendations for adjustments to bursal disease vaccination protocol were made. An ascites condition has been responsible for high death losses in small farm flocks of broilers. It has been seen with low incidence in commercial operations.

Generally turkey flocks were healthy. Introduction of a laser type debeaker led to a number of starve out losses in baby turkeys. Inexperienced sexers caused trauma and rather heavy losses in several small turkey flocks. A condition of renal hemorrhage occurring at 9-12 weeks of age was a new entity. It appears to be stress related.

PROMINENT DISEASES - POULTRY (continued)

Production losses and egg shell problems were the usual cause for table egg bird submissions. Developement of expertise in this area by the poultry disease section was developed to assist producers. Many egg problems were related to inadequate home mixed feeds.

Staphylococcal arthritis continues to be the major problem in broiler breeder operations but seems to be less than in previous years. Some of these flocks experienced fowl cholera related production losses.

New conditions diagnosed included avian encephalomyelitis in turkey poults and apicomplex in a breeder canary colony.

SPECIAL INVESTIGATIONS

The animal section investigated disease problems on 20 occasions. In 10 of these cases the investigation was carried out in cooperation with the Health Management Branch. The 10 cases in which the investigation was performed by veterinarians from the animal section included two herd problems of neonatal diarrhea in beef calves, two herd problems of energy and protein deficiency malnutrition in pregnant beef cows and one herd problem each of encephalopathy of undetermined cause in Simmental calves, dermatitis and alopecia of undetermined cause in donkeys, poor growth in nursing beef calves and hoof deformities in a herd of beef cattle. Bacterial gill disease in brook trout and the effect of the Claresholm blowout on livestock were investigated.

The poultry section made field trips to farms on 16 occasions. The more significant investigations included flock problems in turkey poults of fibrous osteochondrodystrophy due to an error in nutrition and severe dehydration losses in eight week old turkey poults due to too abrupt removal of brooder water fountains and poor adjustment by the poults to the adult water fountains. In a flock of chicks a spinal form of epidemic tremors caused paralysis of large numbers of birds. A severe problem with enteritis in recently weaned mink was found to be caused by inadequate handling of the feed causing an increased bacterial load.

The reproduction section investigated diseases on six premises. Herd problems investigated included malnutrition in beef cows, abortion and premature calves with intrauterine growth retardation in two herds of beef cattle also likely due to malnutrition and single herd problems of severe keratoconjunctivitis in calves, congenital defects in Angus calves and post calving metritis.

Investigations into the Etiology of "Hard Liver Syndrome"

A number of broiler farms experiencing condemnations from the hepatosis syndrome were identified. On farm investigations were conducted and a serologic survey was performed to determine the role of adenovirus hepatitis in the manifestation of hepatosis. This was not a consistent factor in the etiology of the hepatosis.

Wildlife immobilization by Chemical Means

In conjunction with Parks Canada and Fish and Wildlife, work continued in the area of otter relocation, elk transfers, wolf studies, problem bear relocation and deer-urban encounters.

Broiler Barn Mortality Survey

In conjunction with the Poultry Branch, a project was performed to evaluate producer recognition of common causes of mortality in their barns.

Leg Weakness in Broiler Breeders

This continues to be a major problem facing the breeder industry. A number of studies were conducted to elucidate the role of viral arthritis in this problem. Viral arthritis was not an apparent factor.

Infectious Bursal Disease in Broilers

After several outbreaks of gangrenous dermatitis, hepatitis and bursal disease, serology was used to identify the problem breeder flock. All breeders should be vaccinated against bursal disease and thus their progeny should all be protected during the critical stages of their life. One breeder failed to immunize his flock.

Corona Virus Transmission in Pheasants

A suspect corona virus infection at the provincial pheasant rearing facility was investigated by feeding cecal content to young chicks. The clinical signs or pathology could not be reproduced and there was no difference in growth rate compared to controls.

Pancreatic Ligation-Relationship to Stunted Chick Syndrome

Pancreatic atrophy associated with stunted growth in broilers was thought to be caused by obstructive pancreatic duct

hyperplasia as seen in some of the field cases. Experimental ligation of pancreatic ducts showed the resulting lesion to differ in that there were extensive degeneration changes and fibrosis.

Table Egg Quality Investigation

Poor internal quality of table eggs was thought to be nutrition related or faulty storage at the complaining buyers. A review of the management practices hinted at poor storage of the eggs on the farm. Hen fresh eggs and eggs stored at the laboratory were examined and found to be of grade A-1 quality. Eggs obtained from the farm just before shipping on the other hand deteriorated to A-2 and B-1 grades. Delayed collection times and inadequate storage refrigeration were the problem.

Endocardiosis and Ascites Syndrome to Chickens

A high prevalence of cardiac failure with ascites in older broiler chickens initiated a survey of the lesions. The livers showed changes consistent with congestive heart failure. The right ventricles were usually dilated and had consistently valvular endocardiosis characterized by smooth glassy beads at the edge of the heart valves. Histologically these were made up of loose connective tissue stroma with a myxomatous-like appearance. Valvular endocardiosis may be the result rather than the cause of valvular insufficiency with dilation being the primary lesion.

Johne's Disease Survey

The mesenteric lymph nodes and ileum of dairy cows which were not suffering from enteritis were examined for evidence of Johne's disease. Histology was performed on both the ileum and the mesenteric lymph nodes of these animals. Approximately 24 animals were examined and no evidence of Johne's disease was encountered in animals that were not suffering from enteritis.

Stress Line Survey

Bovine fetuses were examined for evidence of stress lines in the bones and where possible, an attempt at correlating the stress lines with the cause of abortion was made. This has been an ongoing study which has been continuing now for six years.

Survey of Normal Bovine Fetal Heart and Lung Weights

A number of normal bovine fetuses were recovered from a local packing plant at time of slaughter. These were in various stages of gestation. Normal bovine heart weights, ventricular weights, septal weights and lung weights (wet and dry) were measured at various stages of gestation. Similar studies were made in calves submitted to the laboratory which had cardiac changes and in calves which were suffering from intrauterine growth retardation.

Respiratory Syncytial Cell Pneumonia in Beef Calves (BRSV)

This infection was recognized in Alberta for the first time in 1983. During 1984, a review was conducted on cases of calf pneumonia that had been submitted during the October-December periods of years 1972-1984. For most of these years, 1-5 cases of BRSV pneumonia was diagnosed, retrospectively, on the basis of signs and pathological changes. This suggests that the disease has been present for at least 10 years.

The development of tissue immunofluorescence will provide an additional and more reliable means of diagnosis.

The following studies were performed in the Toxicology Section:

1. Oxphenylbutazone analysis in horses
2. Drug monitoring in treated horses (tests for anaesthetics, sedatives, tranquilizers and antibiotics).
3. Experimental poisoning of rats with 1080 and analysis review
4. Strychnine and 1080 marker project with predator control.
5. Calcium leaching from red blood cells in autolytic serum samples.

PROFESSIONAL PUBLICATIONS - 1984

1. Daoust, P.-Y., and H.W. Ferguson. 1984. The pathology of chronic ammonia Toxicity in rainbow trout, Salmo gairdneri Richardson. Journal of Fish Diseases 7: 199-205
2. Daoust, P.-Y., Wobester G. and J.D. Newstead. 1984. Acute Pathological Effects of Inorganic Mercury and Copper in Gills of Rainbow Trout. Vet. Pathol. 21: 93-101.
3. Kennedy, Murray J., Robert A. Kralka, and Mathew Schoonderwoerd. 1984. First report of Ollulanus tricuspic (Nematoda) from Western Canada. Journal of Parasitology 70(2). 319-320.
4. Kennedy, Murray J., and Paul F. Frelier. 1984. Renicola lari Timon-David, 1933 from Osprey, Pondion haliaetus (L.), from Alberta, Canada. Journal of Wildlife Diseases 20(4), 350-351.
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CATTLE DISEASES

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Abomasitis	4	18	4	2	28
Abscess	24	8	2	4	38
Brain	4	3	1	0	8
Liver	14	11	4	5	34
Actinobacillosis	0	0	1	1	2
Actinomycosis	2	1	0	0	3
Anaphylaxis	8	2	0	6	16
Anemia					
Hemorrhage	6	3	5	1	15
Iron Deficiency	0	1	0	0	1
Other	2	0	0	0	2
Aneurysm	0	0	0	1	1
Anomaly	1	2	1	3	7
Alimentary	5	1	0	2	8
Cardiovascular	9	15	2	3	29
Eye and Ear	1	0	0	0	1
Multiple	50	1	1	1	53
Musculoskeletal	14	6	1	3	24
Nervous	9	2	0	0	11
Skin & Appendages	1	2	0	1	4
Urogenital	1	1	0	0	2
Anoxia	0	0	10	0	10
Antibiotics Negative	0	0	0	9	9
Arthritis					
Bacterial	0	2	0	1	3
Coryne	1	1	0	0	2
Degenerative	0	1	0	0	1
Fibrinous	0	3	0	0	3
Poly	1	2	1	0	4
Suppurative	2	2	0	1	5
Unknown	1	3	0	0	4
Arthrogryposis	0	0	0	3	3
Asphyxiation	1	2	0	1	4

CATTLE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Atresia Coli	0	0	1	0	1
Bacteria					
Actinobacillus	1	0	0	0	1
Actinomyces Sp	1	0	0	0	1
Bacillus Sp	1	0	0	3	4
Bacteroides	2	0	0	0	2
Campylobacter	0	0	0	2	2
Cl. chauvoei	11	4	0	2	17
Cl. Novyi	0	2	0	0	2
Cl. Septicum	3	0	0	0	3
Cl. Sordelli	1	0	0	0	1
Clost. Sp	0	1	1	0	2
Coryne Pyogenes	43	18	6	12	79
Coryne Sp	15	7	4	3	29
E.Coli	72	39	9	20	140
E.Coli Hemophilus	5	0	0	0	5
Enterobacter	0	0	1	0	1
Fusobacterium	3	1	0	1	5
Hemophilus somnus	22	20	5	8	55
Hemophilus Sp	0	3	0	2	5
Klebsiella	4	1	4	1	10
Listeria Monocytogenes	2	1	0	0	3
Mixed Culture	1	0	0	0	1
Moraxella Sp	2	2	3	1	8
Mycob Para	2	0	0	0	2
Neisseria Sp	0	1	0	0	1
Nocardia Sp	2	0	0	0	2
Past. Hemolytica	82	49	13	20	164
Past. Multocida	17	7	2	4	30
Past. Sp	0	2	0	1	3
Proteus Sp	3	2	0	1	6
Pseudomonas Sp	10	5	0	6	21
Salmonella Sp	3	2	0	2	7
Staph. Aureus	108	35	12	5	160
Staph. Sp.	1	3	1	7	12
Strep. A Hemolytica	15	0	0	0	15
Strep. Agalactia	12	6	2	0	20
Strep. Dysgalactia	16	6	3	0	25
Strep. Equi	1	0	0	0	1
Strep. Sp	2	4	4	2	12
Strep. Uberis	29	2	6	1	38
Strep. Zooepidemicus	1	1	0	0	2

CATTLE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Bacillhemoglobinuria	1	0	0	1	2
Blackleg	20	4	3	5	32
Bloat	24	45	39	21	129
Blood Test Negative	17	0	0	3	20
Blood Test Positive	30	0	0	0	30
Bovine Virus Diarrhea	21	18	10	14	63
Braxy	0	1	1	0	2
Bronchitis	7	4	0	0	11
Cardiac Failure	14	16	12	4	46
Cardiac Tamponade	0	0	0	1	1
Cardiomyopathy	9	4	0	3	16
Caseous Lymphadenitis	0	0	0	1	1
Cellulitis	12	4	0	7	23
Chilling	0	3	0	0	3
Coccidios					
Cecal	0	1	0	0	1
Intestinal	20	31	8	12	71
Cold Injury	1	0	1	3	5
Colitis	2	3	0	1	6
Ulcerative	0	1	0	0	1
Conjunctivitis	0	0	0	1	1
Cyst	1	0	0	0	1
Cystitis	2	2	0	0	4
Deficiency					
Calcium Phosphorus	1	0	0	0	1

CATTLE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Deficiency (continued)					
Calcium	13	0	0	0	13
Copper	2	0	0	0	2
Iodine	0	1	3	0	4
Magnesium	1	1	0	0	2
Malnutrition	26	5	6	2	39
Other	0	1	0	0	1
Phosphorus	15	1	0	0	16
Selenium	5	2	1	0	8
Starvation	0	1	11	2	14
Vitamin A	3	0	0	5	8
Dehydration	11	4	5	0	20
Dermatitis	2	0	0	3	5
Bacterial	2	0	0	0	2
Foot	1	0	0	0	1
Mycosis	0	1	0	0	1
Displaced Abomasum	1	1	1	0	3
Disseminated Intravascular Coagulation	3	0	0	0	3
Dystocia	36	13	10	14	73
Edema Disease	1	0	0	0	1
Electrocution	0	1	0	0	1
Emaciation	3	7	2	6	18
Encephalitis					
Hemophilus somnus	30	24	4	46	104
Non suppurative	5	6	1	2	14
Other	5	0	0	0	5
Suppurative	8	2	2	0	12
Encephalomalacia	2	1	0	0	3
Encephalopathy Coccidial	0	0	0	7	7
Endocarditis	6	5	1	3	15
Enteric Colibacillosis	21	24	1	27	73

CATTLE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Enteritis					
Catarrhal	0	0	0	1	1
Chronic	3	1	0	3	7
Clostridium Sp.	0	7	0	0	7
Hemorrhagic	1	3	2	2	8
Necrotic	6	2	1	2	11
Nutritional	1	0	1	0	2
Parasite	2	0	0	0	2
Protozoa	1	0	0	3	4
Unknown	51	28	3	0	82
Viral	35	19	8	2	64
Enterotox C	0	7	0	1	8
Eosinophilic Myositis	0	0	0	1	1
Epididymitis	2	0	0	0	2
Erosion Epithelial	1	1	0	0	2
Experimental	2	1	0	3	6
Fatty Liver Syndrome	1	0	0	0	1
Feed Analysis	0	1	0	0	1
Fibrosis	0	2	0	0	2
Foot Rot	1	0	0	3	4
For Culture	143	173	124	1	441
For Hematology	19	3	6	4	32
For Identification	160	85	22	12	279
For Serology	3	16	37	5	61
For Urinalysis	0	1	6	0	7
Fracture	5	0	2	4	11
Gastroenteritis	0	1	0	0	1
Goitre	1	5	4	3	13
Granulation Tissue	1	0	0	3	4

CATTLE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDIRE	FAIRVIEW	LETHBRIDGE	TOTAL
Granuloma	3	0	0	2	5
Growth Hyperplasia	1	0	0	0	1
Growth Inflammation	3	3	0	4	10
Gunshot	0	0	1	0	1
Hematoma	2	3	0	0	5
Hemoglobinuria	2	2	0	0	4
Hepatic					
Cirrhosis	1	0	0	0	1
Fibrosis	0	0	1	1	2
Lipidosis	2	0	0	1	3
Necrosis	4	4	1	2	11
Hepatitis	7	5	0	0	12
Hepatitis					
Bacterial	0	0	0	1	1
Necrotic	1	2	0	0	3
Toxic	0	1	2	0	3
Unknown	2	0	1	0	3
Hernia	0	0	0	1	1
Abdominal	1	0	0	0	1
Diaphragmatic	1	2	0	0	3
Hydrocephalus	7	4	3	2	16
Hydrothorax	1	0	0	0	1
Hypocalcemia	6	2	0	1	9
Hypomagnesemia	3	4	0	0	7
Hypoplasia					
Cerebellar	3	0	2	0	5
Renal	0	0	1	0	1
Infectious Bovine Rhinotracheitis					
Neonatal	0	4	0	0	4
Other	8	2	2	1	13
Respiratory	12	14	1	9	36

CATTLE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Icterus	1	0	0	0	1
Impaction	3	0	0	0	3
Indigestion	1	0	0	0	1
Infarct	2	1	0	4	7
Intussusception	1	1	2	0	4
Johnes Disease	12	7	3	2	24
Keratitis	1	0	1	1	3
Keratoconjunctivitis	0	1	0	2	3
Lab Exams Negative	295	206	54	175	730
Laryngitis	2	3	0	0	5
Necrotic	2	1	0	5	8
Leptospirosis	0	0	0	5	5
Leukoencephalomalacia	0	0	0	1	1
Listeriosis	1	1	1	0	3
Lymphadenitis	2	2	0	4	8
Malignant Catarrhal Fever	4	2	0	0	6
Malignant Edema	2	1	0	0	3
Mastitis	235	3	0	9	247
Coliform	3	2	2	20	27
Pasteurella	0	0	0	1	1
Pseudomonas	1	0	0	9	10
Staphylococcus	0	0	14	55	69
Streptococcal	0	0	8	19	27
Meningitis	6	6	1	2	15
Bacterial	1	0	0	1	2
Unknown	0	1	0	1	2
Meningoen suppurative	3	2	1	0	6

CATTLE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Metritis	6	4	2	3	15
Mismanagement	0	0	0	1	1
Miscellaneous Lab Findings					
Bones and Joints	1	0	0	1	2
Circulatory	2	6	0	3	11
Digestive	5	15	1	3	24
Liver	4	3	0	0	7
Muscle	1	3	0	0	4
Nervous	11	2	0	4	17
Other	11	12	0	16	39
Reproductive	3	2	0	13	18
Respiratory	8	4	0	5	17
Urinary	0	1	0	1	2
Myco					
Aspergillus	1	0	0	1	2
Trichophyton	2	0	0	0	2
Yeast	2	0	0	0	2
Mycosis	3	0	0	0	3
Myelitis	0	0	0	1	1
Myocarditis	8	23	4	7	42
Myopathy	8	2	1	3	14
Nutritional	4	8	11	0	23
Myositis	10	3	0	0	13
Neoplasms (see table)					
Necrobacillosis	0	0	0	4	4
Negative Salmonella para	0	0	0	2	2
Negative Salmonella	0	1	0	16	17
Neo Natal Diarrhea	34	2	1	0	37
Nephritis					
Emboli	4	1	1	1	7
Glomerulo	8	0	3	0	11
Interstitial	19	5	1	2	27

CATTLE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Nephritis (Continued)					
Other	6	1	0	0	7
Pyelo	6	6	2	2	16
Nephrosis	1	6	0	1	8
No Diagnosis	502	27	21	49	599
No Test	20	0	4	1	25
No Visible Lesion	55	0	1	22	78
Normal Tissue	15	0	1	7	23
Obstruction					
Esophagus	0	0	1	0	1
Intestinal	1	0	2	0	3
Omphalitis	0	3	3	0	6
Omphalophlebitis	9	5	2	1	17
Orchitis	2	0	0	0	2
Osteodystrophy	0	1	0	0	1
Osteomalacia	1	0	0	0	1
Parasitism (see table)					
Paratuberculosis	3	0	0	0	3
Pending	2	6	2	48	58
Pericarditis traumatic	0	0	1	0	1
Pericarditis	6	9	0	5	20
Peritonitis	21	22	16	8	67
Pleuritis	6	4	0	4	14
Pneumonia					
Atypical Interstitial	37	10	12	27	86
Bacterial	7	0	2	8	17

CATTLE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Pneumonia (Continued)					
Broncho	95	52	4	14	165
Chronic Nonresolving	57	28	5	10	100
Enzootic	1	0	2	1	4
Fibrinous	91	79	15	74	259
Gangrenous	1	0	1	0	2
Granulomatous	2	0	0	0	2
Hemophilus	12	0	1	4	17
Inhalation	18	9	4	6	37
Interstitial	87	42	5	11	145
Mycotic	1	0	0	0	1
Other	33	31	2	3	69
Parasitic	3	2	1	0	6
Pasteurella	89	26	29	29	173
Suppurative	17	9	3	3	32
Viral	23	6	2	12	43
Pneumothorax	0	0	1	0	1
Polioencephalomalacia	15	14	2	16	47
Polyserositis	1	3	1	0	5
Prolapse Rectum	0	1	0	0	1
Pulmonary					
Edema	21	22	0	12	55
Embolism	1	0	0	0	1
Emphysema	1	1	0	3	5
Fibrosis	2	0	0	0	2
Thrombosis	1	0	0	0	1
Pyometra	0	0	1	0	1
Rabies Negative	2	5	0	0	7
Reticulitis Traumatic	7	5	1	6	19
Rhinitis	0	1	0	0	1
Rumen Overload	5	15	2	4	26
Rumenitis	5	2	0	3	10
Mycotic	4	1	0	2	7

CATTLE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Rupture Bladder	0	1	1	0	2
Rupture Esophagus	1	0	0	0	1
Rupture Stomach	0	0	2	0	2
Salmonellosis	1	0	0	9	10
Scabies	0	1	0	0	1
Sensitivity Examination	0	0	0	1	1
Septicemia					
E.coli	8	4	3	7	22
Pasteurella	2	0	3	0	5
Pseudomonas	1	0	0	0	1
Staphylococcus	1	0	0	0	1
Streptococcus	1	1	2	0	4
Unknown	35	7	6	3	51
Shock	3	0	0	0	3
Sinusitis	0	1	0	0	1
Specimen Unsuitable	17	8	2	7	34
Steatitis	0	2	0	0	2
Stillborn	0	12	21	2	35
Stomatitis	0	1	1	0	2
Suitable for Human Use	2	1	3	2	8
Synovitis	0	2	0	0	2
Torsion Abomasum	6	3	1	1	11
Torsion					
Intestinal	5	6	1	0	12
Mesenteric	1	0	1	4	6
Stomach	1	0	0	0	1
Toxemia	0	3	2	0	5
Toxicosis (see table)					

CATTLE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Toxoplasmosis	1	0	0	0	1
Tracheitis	1	2	0	3	6
Trauma	15	21	9	11	56
Tympanites	9	0	1	0	10
Typhlitis	2	0	0	0	2
Ulcer	2	1	0	1	4
Abomasal	10	5	8	7	30
Gastric	1	0	0	0	1
Unsatisfactory	2	2	0	6	10
Unsuitable Animals	0	0	4	0	4
Unsuitable for Human Use	0	0	2	1	3
Uremia	1	0	0	0	1
Urethral Obstruction	1	2	0	0	3
Urinary Calculi	1	0	0	1	2
Vascular Thrombosis	1	0	0	0	1
Vegetative Endocarditis	0	0	3	0	3
Vibriosis	0	1	0	0	1
Virus Unclassified	1	0	0	0	1
Winter Dysentery	0	0	0	4	4
TOTAL	3708	1841	803	1293	7645

SWINE DISEASES

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Abscess	5	4	4	5	18
Brain	3	0	1	0	4
Liver	0	0	1	0	1
Anaphylaxis	0	1	0	0	1
Anemia					
Hemorrhage	1	3	2	0	6
Iron Deficiency	2	1	2	0	5
Other	2	1	0	2	5
Anomaly	0	0	0	1	1
Alimentary	0	1	0	0	1
Cardiovascular	1	2	1	0	4
Multiple	1	0	0	0	1
Musculoskeletal	3	0	2	0	5
Anoxia	0	0	2	0	2
Arthritis					
Bacterial	1	0	1	0	2
Chronic	0	1	0	4	5
Coryne	3	2	1	0	6
Fibrinous	0	0	0	2	2
Poly	4	2	0	0	6
Staphylococcus	1	1	0	0	2
Streptococcus	3	0	1	2	6
Suppurative	2	3	4	3	12
Unknown	3	0	0	0	3
Asphyxiation	0	0	0	1	1
Atresia Ani	0	1	2	0	3
Atrophic Rhinitis	15	1	5	1	22
Bacteria					
Actinobacillus	1	2	0	4	7
Bacillus sp	1	0	0	0	1
Bord Bronchiseptica	3	0	0	0	3
Bordetella Sp	2	1	0	0	3
Coryne Pyogenes	7	6	0	4	17
Campylobacter	1	0	1	8	10
Cl. Perfringens	1	0	0	0	1
Clost Sp	0	1	0	0	1
Coryne Sp	7	2	4	1	14

SWINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDIRE	FAIRVIEW	LETHBRIDGE	TOTAL
Bacteria (Continued)					
E Coli	64	20	0	18	102
E Coli Hemo	50	0	0	0	50
Fusobacterium	1	0	0	0	1
Hemoph Parahaemolytic	22	2	0	9	33
Hemoph Sp	2	2	0	5	9
Hemoph Suis	1	1	0	0	2
Klebsiella	1	0	0	0	1
Listeria Monocytogenes	0	1	0	0	1
Mixed Culture	1	0	0	0	1
Past. Multocida	18	18	5	6	47
Past. Sp	3	2	0	0	5
Proteus Sp	1	0	0	1	2
Pseudomonas Sp	4	2	0	0	6
Salmonella Sp	0	1	0	0	1
Staph Aureus	2	3	0	0	5
Staph Sp	5	0	1	2	8
Strep A Hemo	14	0	0	2	16
Strep Agalactia	0	1	0	0	1
Strep Dysgalactia	0	1	0	0	1
Strep Equi	3	4	1	0	8
Strep Sp	12	9	4	14	39
Strep Uberis	0	1	0	0	1
Treponema	6	0	0	1	7
Cannibalism	0	2	0	0	2
Cardiac Failure	3	1	4	3	11
Cardiac Tamponade	0	1	0	0	1
Cardiomyopathy	1	2	0	2	5
Cellulitis	2	0	0	1	3
Chilling	0	1	0	0	1
Coccidiosis Intestinal	3	0	1	7	11
Colitis	5	6	0	0	11
Cystic Ovaries	0	0	0	1	1
Cystitis	1	2	0	1	4

SWINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Deficiency					
Cal Phos Imbalance	0	0	1	0	1
Malnutrition	9	3	3	1	16
Other	1	0	0	0	1
Selenium	0	2	0	0	2
Starvation	0	1	6	2	9
Vitamin A	1	0	1	0	2
Vitamin K	0	1	0	0	1
Dehydration	0	0	1	0	1
Dermatitis	5	7	1	1	14
Bacterial	1	4	1	0	6
Disseminated Intravascular Coagulation	1	0	0	0	1
Dysentery	0	1	0	0	1
Dystocia	12	3	2	1	18
Edema Disease	1	2	1	0	4
Electrocution	0	1	1	0	2
Emaciation	1	2	0	0	3
Encephalitis					
H Somnus	1	0	0	0	1
Nonsuppurative	2	4	0	1	7
Other	2	1	0	0	3
Suppurative	4	1	0	1	6
Encephalopathy Coccidial	1	0	0	0	1
Endocarditis	7	6	0	3	16
Endometritis	1	1	0	0	2
Enteric Colibacillosis	118	45	32	63	258
Enteritis					
Catarrhal	2	1	0	0	3
Chronic	7	0	0	9	16
Clostridium Sp	0	3	0	0	3
Hemorrhage	11	12	5	12	40

SWINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Enteritis (Continued)					
Necrotic	18	18	4	5	45
Nutritional	1	1	1	0	3
Parasite	1	0	0	0	1
Unknown	32	19	8	6	65
Viral	5	6	0	0	11
Enterotox C	0	4	0	0	4
Erysipelas	12	5	1	2	20
Fibrosis	0	1	0	1	2
For Culture	102	16	6	2	126
For Identification	62	12	2	1	77
For Serology	0	4	0	2	6
Fracture	3	0	3	2	8
Gangrene	1	0	0	0	1
Gastric Ulcer	2	3	0	0	5
Gastritis	2	0	0	0	2
Gastroenteritis	1	0	0	0	1
Glassers Disease	4	0	0	0	4
Granuloma	2	0	0	0	2
Greasy Pig Disease	12	10	4	5	31
Growth Inflammation	0	1	0	0	1
Hematoma	0	0	0	1	1
Hemorrhagic Disease	0	0	0	1	1
Hemorrhagic Enteritis	1	0	0	0	1
Hepatic Fibrosis	1	0	0	0	1
Hepatic Necrosis	1	0	0	0	1

SWINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Hepatitis	3	1	0	0	4
Hepatosis Dietetica	1	0	0	2	3
Hernia Diaphragmatic	0	0	0	1	1
Hydronephrosis	1	0	0	0	1
Hypoglycemia	1	0	1	0	2
Inclusion Body Rhinitis	1	0	0	0	1
Intestinal Impaction	0	0	1	0	1
Intussusception	2	2	0	0	4
Johnes Disease	1	0	0	0	1
Lab Exams Negative	52	40	5	43	140
Laminitis	1	0	0	0	1
Leptospirosis	0	0	0	2	2
Leukoencephalomalacia	0	0	0	1	1
Lymphadenitis	4	0	0	0	4
M Hyorhinus	0	0	0	1	1
Mastitis	2	0	0	1	3
Coliform	1	0	0	2	3
Metritis	0	0	0	1	1
Staphylococcus	0	0	0	1	1
Streptococcus	0	1	0	0	1
Meningitis	6	3	1	4	14
Bacterial	13	4	1	5	23
Meningoenencephalitis					
Nonsuppurative	1	0	1	0	2
Suppurative	3	2	0	2	7
Metritis	2	1	0	2	5
Mismanagement	0	0	1	0	1

SWINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Miscellaneous Lab Findings					
Bones and Joints	0	0	0	1	1
Circulatory	3	0	0	3	6
Digestive	3	10	1	4	18
Hematopoietic	1	1	0	0	2
Liver	1	0	0	0	1
Muscle	2	3	0	0	5
Nervous	0	1	2	0	3
Other	17	2	1	6	26
Reproductive	2	0	0	3	5
Respiratory	1	0	0	3	4
Mulberry Heart Disease	17	7	4	13	41
Mycoplasma Sp	0	1	0	0	1
Myelitis	0	1	0	0	1
Myocarditis	0	7	1	1	9
Myoclonia Congenita	0	0	1	1	2
Myofibrillar Hypoplasia	1	0	0	1	2
Myopathy Nutritional	0	3	0	0	3
Myositis	1	0	0	0	1
Necrobacillosis	1	0	0	0	1
Negative Salmonella	0	0	0	2	2
Neo Natal Diarrhea	8	4	0	2	14
Nephritis					
Emboli	1	0	0	0	1
Glomerulo	2	1	0	0	3
Interstitial	0	1	0	2	3
Other	0	2	0	0	2
Pyelo	1	2	0	4	7
Neoplasms (see table)					
No Diagnosis	134	11	10	24	179
No Test	7	0	0	0	7

SWINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
No Visible Lesion	16	0	0	15	31
Normal Tissue	3	0	0	1	4
Omphalitis	0	1	1	0	2
Omphalophlebitis	5	0	0	0	5
Orchitis	1	0	0	0	1
Osteodystrophy	1	0	0	1	2
Osteomalacia	0	0	1	0	1
Osteomyelitis	2	2	0	1	5
Osteoporosis	2	0	0	0	2
Otitis	1	0	0	1	2
Media	2	2	1	0	5
Parasitism (see table)					
Pending	0	1	1	9	11
Pericarditis	10	8	1	5	24
Peritonitis	8	15	3	4	30
Pleuritis	4	7	0	3	14
Suppurative	1	0	0	0	1
Pleuropneumonia	5	0	0	1	6
Pneumonia					
Bacterial	21	5	6	25	57
Broncho	48	37	2	27	114
Chronic Nonresolving	19	5	0	7	31
Enzootic	64	7	8	15	94
Fibrinous	21	6	2	18	47
Gangrenous	0	1	0	0	1
Granulomatous	1	0	0	0	1
Hemophilus	21	0	0	27	48
Inhalation	1	0	1	0	2
Interstitial	13	1	0	1	15
Other	4	18	2	3	27

SWINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Pneumonia (Continued)					
Parasitis	1	2	0	0	3
Pasteurella	37	6	6	14	63
Suppurative	9	22	1	2	34
Viral	1	0	0	0	1
Polioencephalomalacia	1	0	0	1	2
Polyserositis	11	4	2	0	17
Porcine Stress Syndrome	9	1	0	0	10
Prolapse Rectum	0	0	2	0	2
Pulmonary Edema	9	3	0	3	15
Rhinitis	5	5	0	3	13
Rickets	0	1	0	0	1
Rupture Liver	0	1	0	0	1
Salmonellosis	1	0	0	0	1
Septicemia					
E.coli	31	2	1	3	37
Pasteurella	1	0	0	0	1
Staphylococcus	0	1	0	0	1
Streptococcus	44	7	0	5	56
Unknown	14	12	0	6	32
Serositis	0	1	0	0	1
S H H P	0	7	0	21	28
Specimen Unsuitable	10	2	0	5	17
Spondylitis	0	0	0	2	2
Spraddle Leg	0	0	1	0	1
Starve Out	0	0	0	1	1
Stillborn	0	3	4	5	12
Swine Dysentery	21	18	3	14	56

SWINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Synovitis	2	0	0	0	2
Torsion					
Intestinal	9	9	3	1	22
Mesenteric	1	0	6	7	14
Other	4	6	1	1	12
Stomach	0	0	0	2	2
Toxemia	0	2	1	0	3
Toxicosis (see table)					
Transmissible Gastroenteritis	23	6	3	0	32
Trauma	7	10	16	4	37
Tuberculosis	0	0	1	0	1
Typhlitis	2	0	0	0	2
Ulcer	2	0	0	0	2
Gastric	16	4	1	4	25
Unsatisfactory	0	0	0	1	1
Unsuitable Animals	0	0	5	0	5
Urethral Obstruction	1	0	0	0	1
Urinary Calculi	1	0	0	0	1
Vascular Thrombosis	0	0	1	0	1
Vegetative Endocarditis	2	0	4	0	6
TOTAL	1596	682	256	640	3174

OVINE DISEASES

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Abscess	4	0	3	10	17
Liver	0	1	0	0	1
Anemia					
Iron Deficiency	0	0	0	1	1
Other	2	1	0	1	4
Anomaly	0	0	0	1	1
Alimentary	0	0	2	0	2
Nervous	0	0	1	0	1
Anoxia	0	0	3	0	3
Arthritis					
Bacterial	0	0	1	2	3
Fibrinous	0	0	0	1	1
Streptococcus	0	0	0	1	1
Bacteria					
Bacteroides	3	2	0	0	5
C Pseudotuberculosis	2	2	0	0	4
Coryne Sp	2	2	1	2	7
Fusobacterium	0	0	0	1	1
Past Hemolytica	4	2	0	1	7
Past Multocida	0	0	1	0	1
Staph aureus	1	1	0	0	2
Strep Sp	0	0	1	0	1
Balanoposthitis	0	0	0	1	I
Bloat	1	0	5	5	II
Braxy	0	1	0	0	I
Brucellosis	0	0	0	4	4
Cardiac Failure	0	0	2	0	2
Cardiomyopathy	1	0	0	4	5
Caseous Lymphadenitis	2	4	3	2	11
Cellulitis	1	0	0	0	1
Chilling	0	1	0	0	1

OVINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Coccidios Intestinal	1	2	1	8	12
Contagious Ecthyma	1	0	0	0	1
Cyst	1	0	0	0	1
Deficiency					
Calcium	1	1	2	1	5
Iodine	2	1	0	0	3
Malnutrition	13	3	0	1	17
Selenium	0	1	0	0	1
Starvation	0	0	7	1	8
Dehydration	0	0	1	0	1
Dystocia	2	0	3	2	7
Emaciation	3	4	1	3	11
Encephalit					
Nonsuppurative	0	1	0	0	1
Suppurative	0	3	0	0	3
Encephalomalacia	0	0	0	1	1
Endocarditis	1	0	0	0	1
Endometritis	0	1	0	0	1
Enteric Colibacillosis	0	0	0	4	4
Enteritis					
Clostridium Sp	0	3	0	0	3
Hemorrhage	0	1	0	0	1
Parasite	1	3	0	0	4
Pseudomonas	0	0	0	1	1
Unknown	2	5	0	0	7
Enterotoxemia					
Type C	0	1	0	0	1
Type D	0	4	1	1	6
Epididymitis	1	1	0	1	3
Experimental	4	0	10	0	14

OVINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDIRE	FAIRVIEW	LETHBRIDGE	TOTAL
Feed Analysis	0	1	0	0	1
Fibrosis	1	0	0	0	1
Foot Rot	6	4	1	0	11
For Culture	32	4	4	0	40
For Hematology	1	0	0	0	1
For Identification	4	7	1	1	13
For Serology	0	2	0	0	2
Fracture	0	0	0	3	3
Goitre	0	1	0	0	1
Gunshot	0	0	1	0	1
Hepatic					
Lipidosis	0	0	1	2	3
Necrosis	1	0	0	0	1
Hepatitis	2	1	1	0	4
Toxic	1	0	0	0	1
Hypocalcemia	0	0	1	1	2
Hypoplasia Cerebellar	0	1	0	0	1
Icterus	0	0	0	1	1
Johnes Disease	2	3	2	2	9
Lab Exams Negative	74	16	2	5	97
Listeriosis	2	0	1	0	3
Lymphadenitis	1	0	0	0	1
Malocclusion	0	1	2	0	3
Mastitis	0	0	1	1	2
Staphylococcus	0	1	1	0	2
Streptococcus	0	0	0	1	1

OVINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Meningitis	0	0	0	3	3
Bacterial	2	0	0	0	2
Meningoen					
Nonsuppurative	0	0	1	0	1
Suppurative	2	0	2	0	4
Metritis	0	1	0	0	1
Miscellaneous Lab Findings					
Bones and Joints	0	1	0	0	1
Circulatory	0	1	0	0	1
Digestive	2	4	0	2	8
Nervous	0	0	0	1	1
Other	0	1	0	0	1
Reproductive	0	2	0	0	2
Respiratory	0	0	0	2	2
Myocarditis	0	1	1	1	3
Myopathy	3	0	1	0	4
Nutritional	1	2	1	0	4
Neoplasms (see table)					
Nephritis Glomerulo	0	1	1	0	2
Nephrosis	0	1	0	1	2
No Diagnosis	36	3	10	9	58
No Visible Lesion	1	0	0	4	5
Normal Tissue	4	0	0	2	6
Omphalitis	2	0	0	0	2
Osteomyelitis	1	0	0	0	1
Otitis Media	0	1	0	0	1
Parasitism (see table)					
Pending	0	0	0	6	6
Pericarditis	0	0	0	1	1

OVINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Peritonitis	1	1	1	0	3
Pleuritis	2	0	0	1	3
Pneumonia					
Bacterial	1	0	1	3	5
Broncho	7	4	0	2	13
Chronic Nonresolving	5	1	2	2	10
Fibrinous	0	0	0	1	1
Inhalation	1	2	0	3	6
Interstitial	1	3	0	2	6
Other	0	3	0	0	3
Parasitic	3	0	0	0	3
Pasteurella	2	0	5	5	12
Suppurative	0	4	1	0	5
Polioencephalomalacia	1	7	5	7	20
Pregnancy Toxemia	3	1	0	0	4
Prolapse Rectum	1	0	0	0	1
Pulmonary Edema	1	2	0	3	6
Pyometra	1	0	0	0	1
Rumen Overload	2	4	8	0	14
Rumenitis	2	0	1	1	4
Mycotic	0	0	0	1	1
Rupture					
Bladder	1	0	0	0	1
Stomach	1	0	2	0	3
Septicemia					
E coli	1	0	0	1	2
Pasteurella	1	0	1	3	5
Staphylococcus	0	1	0	0	1
Streptococcal	0	0	1	0	1
Specimen Unsuitable	3	3	0	0	6
Stillborn	0	2	5	1	8

OVINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Torsion					
Intestinal	3	3	0	0	6
Mesenteric	0	0	1	3	4
Toxicosis (see table)					
Toxemia	0	3	1	0	4
Trauma	5	7	5	3	20
Ulcer Abomasal	0	0	1	0	1
Unsatisfactory	1	0	0	0	1
Unsuitable for Human Use	0	0	1	0	1
Urethral Obstruction	2	0	2	0	4
Urinary Calculi	2	0	2	0	4
Vegetative Endocarditis	0	0	1	0	1
Vibriosis	0	0	5	0	5
TOTAL	291	164	133	156	744

CAPRINE DISEASES

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Abortion Bacterial	1	0	0	0	1
Abortion Idiopathic	0	0	1	0	1
Abortion Mummified	1	0	0	0	1
Abortion Other	0	1	0	0	1
Abscess	4	0	1	3	8
Abscess Brain	0	0	1	0	1
Alopecia	0	0	1	0	1
Anemia Hemorrhage	1	0	0	1	2
Anomaly Musculoskeletal	0	1	0	0	1
Arthritis Unknown	0	1	0	0	1
Bacteria					
Bacteroides	3	0	0	0	3
C Pseudotuberculosis	4	0	1	0	5
Coryne Sp	1	0	1	0	2
Mixed Culture	1	0	0	0	1
Past Hemolytica	1	0	0	0	1
Staph Aureus	0	1	1	0	2
Staph Sp	1	0	0	0	1
Strep Pneumoni	1	0	0	0	1
Bloat	0	0	1	0	1
Braxy	1	0	0	0	1
Cannibalism	0	0	1	0	1
Cardiomyopathy	2	0	0	0	2
Caseous Lymphadenitis	4	0	1	0	5

CAPRINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Cellulitis	1	0	0	0	1
Coccidios Intestinal	2	0	0	0	2
Contagious Ecthyma	0	0	0	1	1
Def Iodine	0	0	1	0	1
Def Starvation	0	0	1	0	1
Dehydration	0	1	0	0	1
Dermatitis	0	1	2	0	3
Dystocia	0	0	0	1	1
Emaciation	1	0	0	0	1
Encephalit Nonsuppurative	1	0	1	0	2
Encephalit Other	1	0	0	0	1
Encephalopathy Coccidial	1	0	0	0	1
Endometritis	1	0	0	0	1
Enterit Unknown	2	1	0	0	3
For Culture	4	7	7	0	18
For Identification	0	4	0	0	4
For Urinalysis	0	0	1	0	1
Gunshot	1	0	0	0	1
Hepatic Lipidosis	1	0	0	1	2
Hepatitis	1	0	0	0	1
Johnes Disease	1	0	0	0	1
Lab Exams Negative	9	6	2	3	20
Listeriosis	1	0	0	0	1

CAPRINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Mastitis	1	0	0	0	1
Mastitis Staphylococcal	0	0	0	1	1
Meningoen Suppurative	0	0	1	0	1
Mismanagement	0	0	0	1	1
Miscellaneous Lab Findings					
Reproductive	1	0	0	0	1
Myelitis	1	0	0	0	1
Myopathy Nutritional	1	0	0	0	1
Neoplasm (see table)					
Nephrosis	1	0	1	0	2
No Diagnosis	13	0	2	0	15
No Test	1	0	0	0	1
No Visible Lesion	3	0	0	0	3
Parasitism (see table)					
Peritonitis	0	0	0	1	1
Pleuritis	0	1	0	0	1
Pneumonia					
Broncho	3	0	0	0	3
Inhalation	0	0	1	0	1
Interstitial	1	0	1	1	3
Other	1	0	0	0	1
Parasitic	1	0	0	0	1
Pasteurella	4	0	0	0	4
Suppurative	3	0	0	0	3
Polioencephalomalacia	0	1	1	0	2
Rumen Overload	1	0	0	1	2
Rumenitis	1	0	0	0	1

CAPRINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Septicem Pasteurella	1	0	0	0	1
Septicem Streptococcal	1	0	0	0	1
Septicem Unknown	2	0	0	0	2
Stillborn	0	0	1	0	1
Torsion Intestinal	1	0	0	0	1
Torsion Mesenteric	1	0	0	0	1
Toxicosis (see table)					
Trauma	1	1	1	0	3
TOTAL	99	27	34	15	175

CHICKEN DISEASES

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Abscess	5	0	0	0	5
Brain	0	1	0	0	1
Air Sacculitis	14	2	0	7	23
Anemia					
Hemorrhage	12	0	0	0	12
Other	1	0	0	0	1
Anomaly					
Alimentary	1	0	0	0	1
Urogenital	1	0	0	0	1
Arthritis					
Bacterial	4	0	0	0	4
Chronic	1	0	0	0	1
Staphylococcus	120	15	0	13	148
Suppurative	1	0	0	1	2
Unknown	1	0	0	0	1
Ascites	156	24	2	5	187
Aspergillosis	3	1	0	0	4
Asphyxiation	29	0	0	0	29
Bacteria					
E coli	0	4	0	1	5
Hemophilus Sp	1	1	0	0	2
Past Multocida	2	3	0	1	6
Salmonella Sp	5	5	0	4	14
Staph Aureus	1	10	0	0	11
Staph Sp	0	1	0	3	4
Strep Sp	1	0	0	0	1
Breast Blister	2	0	0	0	2
Bronchitis	2	0	0	0	2
Bumblefoot	6	0	0	0	6
Bursal Disease	15	2	0	10	27
Caged Layer Paralysis	12	1	0	9	22
Candidiasis	2	0	0	0	2

CHICKEN DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FIARVIEW	LETHBRIDGE	TOTAL
Cannibalism	26	7	5	2	40
Capillariasis	1	0	0	0	1
Cardiac Failure	25	0	0	4	29
Cardiomyopathy	1	1	0	0	2
Cellulitis	18	0	0	1	19
Chilling	1	0	0	0	1
Chondrodystrophy	10	3	0	2	15
Chronic Respiratory	0	0	0	1	1
Coccidiosis					
Cecal	15	4	0	2	21
Intestinal	42	8	2	4	56
Coligranuloma	3	0	0	0	3
Conjunctivitis	1	1	0	1	3
Deficiency					
Cal Phos Imbalance	0	0	2	0	2
Calcium	1	0	2	0	3
Malnutrition	11	4	9	1	25
Rhiboflavin	0	1	0	0	1
Starvation	0	1	0	0	1
Vitamin A	7	4	4	4	19
Dehydration	42	4	0	1	47
Dermatitis	1	1	0	1	3
Bacterial	0	1	0	1	2
Gangrenous	4	0	0	1	5
Mycosis	0	0	0	1	1
Egg Production Loss	2	0	0	0	2
Eggbound	2	0	0	0	2
Electrocution	0	0	0	1	1
Emaciation	24	1	1	3	29

CHICKEN DISEASES

(Continued)

DISEASE	EDMONTON	AIRDIRE	FAIRVIEW	LETHBRIDGE	TOTAL
Encephalitis					
Avian	2	0	0	0	2
Nonsuppurative	0	1	0	0	1
Other	1	0	0	0	1
Endocarditis	1	0	0	0	1
Enteritis					
Catarrhal	1	0	0	0	1
Necrotic	18	3	3	5	29
Protozoa	2	0	0	0	2
Ulcerative	1	0	0	0	1
Unknown	1	1	0	0	2
Erysipelas	0	1	0	0	1
Experimental	1	0	0	0	1
Fatty Liver Syndrome	3	1	0	5	9
Fatty LK Syndrome	0	1	0	0	1
Feed Analysis	10	0	0	0	10
Flip Over	280	11	7	1	299
For Culture	144	3	0	0	147
For Identification	4	4	0	0	8
For Serology	44	2	0	1	47
Fowl Cholera	5	5	1	3	14
Fracture	2	0	0	0	2
Gizzard					
Erosion	5	0	0	0	5
Impaction	2	0	0	0	2
Ulceration	3	0	0	0	3
Gout	13	2	0	0	15
Visceral	46	2	0	0	48
Granuloma	1	0	0	0	1

CHICKEN DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Growth Inflammation	0	1	0	0	1
Heat Prostration	0	1	0	0	1
Hemorrhage Liver	64	3	0	0	67
Hepatic					
Firbrosis	1	0	0	0	1
Lipidosis	1	0	0	1	2
Necrosis	2	1	0	0	3
Hepatitis	2	4	0	0	6
Bacterial	6	3	1	2	12
Inclusion	10	0	0	1	11
Necrotic	1	0	0	0	1
Unknown	16	0	3	0	19
Histomoniasis	1	0	0	0	1
Icterus	1	0	0	0	1
Impaction	2	0	0	1	3
Bowel	3	0	0	0	3
Oviduct	16	0	0	1	17
Infectious					
Bronchitis	1	0	0	1	2
Coryza	0	0	2	0	2
Laryngotracheitis	7	3	1	0	11
Synovitis	0	0	0	1	1
Yolk Sac	11	6	0	6	23
Intussusception	2	0	0	0	2
Keratitis	0	1	0	0	1
Kinky Back	19	2	0	3	24
Lab Exams Negative	22	14	1	4	41
Laryngotracheitis	3	0	0	0	3
Leg Weakness	72	8	3	7	90
Leukosis					
Lymphoid	95	10	1	14	120

CHICKEN DISEASES

(Continued)

DISEASE	EDMONTON	AIRDIRE	FAIRVIEW	LETHBRIDGE	TOTAL
Leukosis (Continued)					
Myelogenous	1	0	0	0	1
Undifferentiated	3	0	0	0	3
Litter Eating	12	0	0	1	13
Lymphadenitis	0	0	0	1	1
Marek's Disease					
General	12	19	2	8	41
Neuro	10	7	0	2	19
Mismanagement	1	1	2	2	6
Miscellaneous Lab Findings					
Bones and Joints	2	1	1	0	4
Circulatory	1	0	0	0	1
Digestive	12	1	0	2	16
Muscle	2	0	0	1	3
Other	6	0	0	6	12
Reproductive	11	0	0	1	12
Myocarditis	1	1	1	0	3
Myopathy	1	0	1	0	2
Neoplasms					
Adenoc	1	0	0	1	2
Adenoc Ovary	5	4	0	0	9
Adenoc Undifferentiated	1	0	0	0	1
Adenoma Ovary	0	0	0	1	1
Carcinoma	0	1	0	0	1
Embryonal Nephroma	2	0	0	0	2
Fibroma	1	0	0	0	1
Fibrosarcoma	1	0	0	0	1
Hemangiosarcoma	1	0	0	0	1
Leiomyoma	1	0	0	0	1
Liposarcoma	0	0	0	1	1
Lymphosarcoma	0	1	0	1	2
Other	0	0	0	1	1
Sarcoma	3	0	0	0	3
Necrosis Plantar	1	0	0	0	1
Negative Salmonella Para	183	0	0	0	183

CHICKEN DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Negative Salmonella	20	117	0	39	176
Nephritis					
Glomerulo	2	0	0	0	2
Interstitial	2	1	0	0	3
Other	1	3	0	0	4
Pyelo	0	1	0	0	1
Nephrosis	34	1	0	0	35
Newcastle	1	0	0	0	1
No Diagnosis	39	11	6	11	67
No Test	9	0	0	0	9
No Visible Lesion	34	0	0	7	41
Normal Tissue	1	2	0	0	3
Omphalitis	112	10	11	6	139
Omphalophlebitis	0	3	0	0	3
Oophoritis	0	6	0	0	6
Osteomalacia	2	0	0	0	2
Osteomyelitis	11	2	0	1	14
Osteoporosis	22	2	0	0	24
Otitis	1	0	0	0	1
Overheating	1	0	0	0	1
Parasitism (see table)					
Pasted Vent	4	1	0	0	5
Pending	2	0	0	14	16
Pendulous Crop	6	2	0	0	8
Pericarditis	2	3	1	1	7

CHICKEN DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Peritonitis	35	10	4	3	52
Perosis	0	5	0	0	5
Pneumonia					
Bacterial	7	0	0	1	8
Broncho	2	0	0	0	2
Granulomatous	2	0	0	0	2
Inhalation	5	0	0	0	5
Pasteurella	0	0	2	0	2
Mycoplasma	3	0	0	0	3
Salmonella	36	12	0	8	56
Prolapse Cloaca	9	1	1	1	12
Pulm Emphysema	0	0	0	1	1
Pulmonary Edema	8	0	0	0	8
Reproductive Disorder	16	3	0	0	19
Rhinitis	0	3	0	0	3
Rickets	11	6	3	0	20
Round Heart Disease	32	1	3	0	36
Rupture					
Aortic	1	0	0	0	1
Egg	0	0	1	0	1
Liver	2	1	0	0	3
Tendon	5	3	0	0	8
Yolk	16	0	0	3	19
Salmonellosis	1	3	0	4	8
Satisfactory	0	2	0	0	2
Scoliosis	1	0	0	0	1
Septicemia					
E.coli	69	2	1	1	73
Pasteurella	0	1	0	0	1
Staphylococcal	7	1	1	4	13
Streptococcus	1	1	0	0	2
Unknown	1	1	0	0	2

CHICKEN DISEASES

(Continued) DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Sinusitis	4	2	0	0	6
Specimen Unsuitable	34	1	0	0	35
Splenic Hyperplasia	1	0	0	0	1
Spraddle Leg	0	1	0	1	2
Starve Out	13	1	1	7	22
Suitable Animals	32	0	0	0	32
Suitable for Human Use	0	0	2	1	3
Synovitis	0	7	0	2	9
Tendon Rupture	0	1	0	3	5
Tibial Rotation	24	4	0	1	29
Toxicosis (see table)					
Tracheitis	11	3	0	3	17
Trauma	26	1	3	2	32
Tuberculosis	23	2	11	4	40
Ulcer Gizzard	8	0	0	2	10
Unsuitable Animals	0	0	3	0	3
Vaccination Reaction	2	0	0	0	2
Water Starvation	0	1	0	0	1
TOTAL	2613	488	111	302	3514

TURKEY DISEASES

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Air Sacculitis	19	8	0	3	30
Anemia					
Hemorrhage	1	0	0	0	1
Aneurysm	1	0	0	0	1
Aortic Rupture	3	0	0	0	3
Arizona Infection	0	2	1	0	3
Arthritis					
Chronic	1	0	0	0	1
Fibrinous	1	0	0	0	1
Staphylococcus	9	2	0	0	11
Ascites	15	8	0	3	26
Aspergillosis	44	2	3	1	50
Asphyxiation	4	0	0	0	4
Bact Acid Fast Organisms	0	2	0	0	2
Bacteria					
E coli	0	4	0	0	4
Staph Aureus	1	1	0	0	2
Strep A Hemo	0	0	0	1	1
Bumblefoot	2	0	0	1	3
Candidiasis	0	1	0	0	1
Cannibalism	4	2	0	0	6
Cardiac Failure	3	0	0	1	4
Cardiomyopathy	1	0	0	0	1
Chronic Respiratory Disease	3	0	0	0	3
Coccidiosis					
Cecal	0	1	0	0	1
Intestinal	9	0	0	0	9
Coligranuloma	2	0	1	0	3

TURKEY DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Crop Mycosis	1	0	0	0	1
Deficiency					
Malnutrition	1	0	1	0	2
Protein	0	0	0	1	1
Starvation	0	0	2	0	2
Vitamin A	1	0	0	0	1
Dehydration	17	0	0	0	17
Emaciation	2	0	0	0	2
Encephalitis					
Avian	1	0	0	0	1
Nonsuppurative	1	0	0	0	1
Other	1	0	0	0	1
Enteritis					
Catarrhal	7	0	0	0	7
Hemorrhage	7	3	0	0	10
Necrotic	6	2	0	1	9
Unknown	0	3	0	0	3
Viral	0	1	0	2	3
Erysipelas	4	0	0	1	5
Experimental	1	0	0	0	1
Feathering Poor	0	1	0	0	1
Feed Analysis	3	0	0	0	3
For Culture	23	2	0	0	25
For Identification	0	2	1	0	3
For Serology	5	2	0	0	7
Fowl Cholera	1	2	2	0	5
Fracture	3	0	0	0	3
Gizzard					
Erosion	1	0	1	0	2
Impaction	18	0	0	0	18
Perforation	0	0	1	0	1

TURKEY DISEASES

(Continued) DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Gout	1	0	0	0	1
Visceral	0	0	1	0	1
Hatching Problem	1	0	0	0	1
Hepatic Fibrosis	0	1	0	0	1
Hepatitis					
Bacterial	2	0	0	0	2
Necrotic	0	2	0	0	2
Histomoniasis	12	3	3	7	25
Impaction	7	0	0	1	8
Bowel	7	0	0	0	7
Improper Debeaking	1	1	0	0	2
Infectious					
Sinusitis	1	0	0	0	1
Yolk Sac	5	0	0	0	5
Kinky Back	1	0	0	0	1
Lab Exams Negative	4	4	0	2	10
Leg Weakness	20	0	1	3	24
Leukosis					
Lymphoid	1	0	0	0	1
Undifferentiated	0	1	0	0	1
Listeriosis	1	0	0	0	1
Litter Eating	20	0	0	0	20
M Meleagridis	0	2	0	0	2
Marble Spleen Disease	1	0	0	0	1
Mismanagement	4	0	1	0	5
Miscellaneous Lab Findings					
Circulatory	1	0	0	0	1
Liver	0	0	0	1	1
Other	2	0	0	0	2

TURKEY DISEASE

(Continued)

DISEASE	EDMONTON	AIRDRIE	FIARVIEW	LETHBRIDGE	TOTAL
Miscellaneous Lab Findings (Continued)					
Reproductive	1	0	0	0	1
Myco Aspergillus Sp	0	0	0	1	1
Myco Mucor Sp	1	0	0	0	1
Mycoplasma Sp	1	3	0	0	4
Mycosis	0	1	0	0	1
Negative Salmonella Para	17	0	0	0	17
Nephritis Glomerulo	0	0	1	0	1
Nephrosis	2	0	0	0	2
No Diagnosis	10	2	0	2	14
No Test	3	0	0	0	3
No Visible Lesion	3	0	0	3	6
Normal Tissue	0	0	0	1	1
Omphalitis	20	0	2	0	22
Osteodystrophy	1	0	0	0	1
Osteomalacia	1	0	0	0	1
Osteomyelitis	2	0	0	0	2
Osteoporosis	1	0	0	0	1
Overheating	1	0	0	0	1
Parasitism					
Ascaridia	1	1	0	0	2
Pending	0	0	0	2	2
Peritonitis	3	2	0	2	7
Pneumonia					
Bacterial	1	0	0	0	1

TURKEY DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIGE	TOTAL
Pneumonia (Continued)					
Broncho	2	0	0	0	2
Granulomatous	3	0	0	0	3
Inhalation	1	0	0	0	1
Mycotic	2	0	0	0	2
Positive Mycoplasma	2	0	0	0	2
Positive Salmonella	6	0	0	0	6
Pulmonary Edema	1	0	0	0	1
Reproductive Disease	1	0	0	0	1
Rickets	5	1	0	0	6
Round Heart Disease	12	3	0	2	17
Rupture					
Aortic	20	2	0	0	22
Liver	1	0	0	0	1
Salmonellosis	6	3	0	0	9
Septicemia					
E coli	23	3	0	0	26
Staphylococcus	5	0	0	0	5
Unknown	0	0	1	0	1
Sinusitis	2	0	0	0	2
Specimen Unsuitable	5	0	0	0	5
Spraddle Leg	1	0	0	0	1
Starve Out	30	0	2	1	33
Stress	12	0	0	0	12
Suitable Animals	1	0	0	0	1
Tibial Rotation	16	4	1	0	21
Tracheitis	0	1	0	0	1
Transmissible Gastroenteritis	0	1	0	0	1

TURKEY DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Trauma	7	1	0	1	9
Tuberculosis	1	0	0	0	1
Typhlitis	1	1	0	0	2
Unsuitable for Human Use	1	0	1	0	2
Water Starvation	0	1	0	1	2
TOTAL	555	95	27	45	722

EQUINE DISEASES

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Abscess	6	0	1	0	7
Brain	0	0	1	0	1
Alopecia	0	0	0	1	1
Anemia					
Hemorrhage	1	0	0	0	1
Isohemolytic	0	2	1	0	3
Anomaly					
Cardiovaslcular	0	2	0	0	2
Multiple	2	0	0	0	2
Musculoskeletal	1	1	0	0	2
Urogenital	1	0	0	1	2
Anoxia	0	0	1	0	1
Arthritis					
Chronic	0	0	0	1	1
Degenerative	0	0	0	1	1
Unknown	2	0	0	0	2
Bacteria					
Actinobacillus	6	5	1	3	15
C Pyogenes	0	0	0	1	1
Cl perfringens	1	0	0	0	1
Cl septicum	0	0	1	0	1
Coryne Sp	0	1	0	4	5
E coli	3	4	0	7	14
E coli Hemo	1	0	0	0	1
Hemophilus Sp	0	0	0	1	1
Klebsiella	0	0	0	1	1
Mixed Culture	0	2	0	0	2
Moraxella Sp	0	1	0	0	1
Nocardia Sp	0	0	1	0	1
Past Multocida	0	0	0	1	1
Pseudomonas Sp	0	0	0	2	2
Salmonella Sp	0	1	0	0	1
Serratia	1	0	0	0	1
Shigella Sp	0	1	0	0	1
Staph Aureus	4	2	1	3	10
Staph Sp	3	1	0	2	6
Strep A Hemo	3	2	0	0	5
Strep Agalactia	0	0	0	1	1
Strep B Hemo	1	0	0	0	1
Strep Dysgalactia	1	0	0	0	1

EQUINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Bacteria (Continued)					
Strep Equi	10	3	2	7	22
Strep Sp	1	3	0	3	7
Strep Uberis	0	1	0	0	1
Strep Zooepidemicus	12	8	2	38	60
Biopsy Uterus	42	35	0	0	77
Bloat	0	1	0	0	1
Blood Test Negative	5	0	0	1	6
Blood Test Positive	1	0	0	0	1
Bronchitis	0	2	0	0	2
Calcinosis Circumscripta	1	0	0	0	1
Cardiac Failure	0	4	0	0	4
Cardiomyopathy	1	2	0	0	3
Cellulitis	2	2	0	0	4
Cold Injury	0	0	0	1	1
Colitis	2	9	0	0	11
Colitis "X"	2	1	0	0	3
Colitis Ulcerative	0	0	0	1	1
Conjunctivitis	0	0	1	1	2
Cyst	1	0	0	0	1
Epidermoid	1	1	0	0	2
Deficiency					
Immunologic	0	0	0	1	1
Iodine	0	0	1	0	1
Malnutrition	4	1	2	0	7
Starvation	1	0	0	1	2
Dermatitis	9	13	1	7	30
Bacterial	1	0	0	0	1
Dermatomycosis	1	1	1	0	3

EQUINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Disseminated Intravascular Coagulation	0	0	0	1	1
Dystocia	5	0	0	1	6
Emaciation	3	0	1	0	4
Encephalitis					
Nonsuppurative	1	0	0	0	1
Other	0	0	1	0	1
Encephalopathy Coccidial	0	1	0	0	1
Endocarditis	0	1	0	0	1
Enteric Colibacillosis	0	2	0	1	3
Enteritis					
Chronic	1	0	0	0	1
Granulomatous	1	0	0	0	1
Hemorrhage	0	0	0	1	1
Necrotic	0	3	0	0	3
Parasite	1	0	1	0	2
Unknown	2	5	1	0	8
Viral	0	1	0	0	1
Epididymitis	0	0	0	1	1
Experimental	1	0	0	0	1
Fibrosis	0	2	0	0	2
For Culture	139	46	34	0	219
For Cytology	2	0	2	1	5
For Hematology	2	0	10	0	12
For Identification	18	28	3	2	51
For Serology	0	2	1	0	3
For Urinalysis	0	0	3	1	4
Fracture	5	0	1	3	9

EQUINE DISEASES

(Continued) DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Gangrene	1	0	0	0	1
Gastric Ulcer	0	1	0	0	1
Gingivitis	0	1	0	0	1
Goitre	0	1	1	2	4
Granulation Tissue	4	3	0	3	10
Granuloma	7	0	0	2	9
Growth Inflammation	8	6	0	3	17
Hepatic					
Cirrhosis	0	0	1	0	1
Fibrosis	1	0	0	0	1
Hepatitis	4	1	0	1	6
Bacterial	1	0	0	0	1
Necrotic	0	1	0	0	1
Toxic	0	1	0	1	2
Unknown	2	0	0	0	2
Hernia	0	0	0	1	1
Hyperpl					
Biliary	0	1	0	0	1
Thyroid	0	0	0	1	1
Impact Bowel	1	0	0	0	1
Impaction	0	0	0	1	1
Infarct	1	1	0	0	2
Intestinal Impaction	0	0	3	0	3
Intussusception	1	1	0	0	2
Lab Exams Negative	68	37	13	59	177
Laminitis	0	1	1	0	2
Laryngitis	0	0	0	1	1

EQUINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Malignant Edema	1	0	0	0	1
Mastitis	2	0	0	0	2
Meningitis	0	1	0	0	1
Metritis	0	0	1	0	1
Miscellaneous Lab Findings					
Bones and Joints	0	4	0	0	4
Circulatory	4	7	0	1	12
Digestive	2	9	0	2	13
Hematopoietic	0	1	0	0	1
Liver	1	0	0	0	1
Muscle	0	1	0	0	1
Nervous	0	3	0	0	3
Other	1	1	1	7	10
Reproductive	2	1	0	13	16
Respiratory	2	1	0	4	7
Urinary	0	1	0	0	1
Myco					
Aspergillus	0	0	1	0	1
Candida Sp	0	0	0	1	1
Microsporum	0	0	0	1	1
Sp	0	1	1	0	2
Trichophyton	2	2	2	1	7
Yeast	0	0	0	1	1
Mycosis	1	0	0	0	1
Myelitis	1	0	0	0	1
Myocarditis	0	1	0	0	1
Myopathy	1	0	0	0	1
Nutritional	1	1	0	0	2
Myositis	2	0	0	0	2
Neoplasm (see table)					
Necrosis Skin	0	1	0	0	1
Negative Salm Para	0	0	0	1	1

EQUINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Negative Salmonella	0	1	0	3	4
Nephritis					
Emboli	1	0	1	0	2
Glomerulo	0	1	0	1	2
Other	2	1	0	0	3
Pyelo	1	0	0	0	1
Nephrosis	0	1	0	0	1
No Diagnosis	65	3	5	1	74
No Test	4	0	1	0	5
No Visible Lesion	4	0	0	1	5
Normal Tissue	0	0	0	1	1
Omphalitis	0	0	0	1	1
Omphalophlebitis	1	1	0	1	3
Osteomyelitis	0	1	0	0	1
Parasitism (see table)					
Parakeratosis	0	1	0	0	1
Pending	0	2	3	10	15
Peritonitis	4	8	1	4	17
Pleuritis	1	3	0	0	4
Pleuritis Suppurative	0	1	1	0	2
Pneumonia					
Bacterial	3	0	0	2	5
Broncho	7	0	1	1	9
Chronic Nonresolving	1	0	0	1	2
Fibrinous	1	1	1	0	3
Granulomatous	0	1	0	0	1
Inhalation	2	3	2	0	7
Interstitial	0	2	0	0	2
Other	3	4	0	0	7
Suppurative	0	3	1	0	4

EQUINE DISEASES

(Continued) DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Pneumonia (Continued)					
Viral	2	1	0	0	3
Emphysema	1	0	0	0	1
Pulm Emphysema	1	0	0	0	1
Pulmonary Thrombosis	0	2	0	0	2
Rabies Negative	1	0	0	0	1
Rhinopneumonitis	0	2	0	0	2
Rupture Stomach	1	0	0	0	1
Salmonellosis	1	1	0	0	2
Septicemia					
E coli	0	1	0	0	1
Streptococcal	4	2	0	0	6
Unknown	3	6	0	0	9
Serositis	0	0	0	1	1
Shigellosis	4	3	1	0	8
Specimen Unsuitable	9	3	1	3	16
Stillborn	0	2	2	1	5
Strangles	2	1	0	0	3
Synovitis	1	0	0	0	1
Torsion					
Intestinal	7	4	2	0	13
Mesenteric	0	0	0	1	1
Stomach	1	0	0	0	1
Toxicosis (see table)					
Trauma	5	10	3	0	18
Tympanites	1	0	0	0	1
Typhlitis	2	0	0	0	2
Ulcer	0	0	1	1	2

EQUINE DISEASES

(Continued) DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Ulcer Gastric	1	1	0	1	3
Unsatisfactory	0	2	0	0	2
Vascular Thrombosis	1	0	1	0	2
TOTAL	585	374	129	245	1333

CANINE AND FELINE DISEASES

(Airdrie, Fairview and Lethbridge included)

DISEASE	CANINE	FELINE
Abortion		
Anomaly	1	0
Viral	1	0
Abscess		
Brain	4	0
	2	0
Anemia		
Aplastic	1	0
Hemorrhage	8	4
Other	2	3
Anomaly		
Cardiovascular	6	2
Nervous	1	0
Urogenital	2	1
Arthritis		
Poly	2	0
Suppurative	1	0
Unknown	0	1
Bacteria		
B Bord Bronchiseptica	2	0
B Coryne Sp	1	0
E Coli	15	8
E Coli Hemo	5	3
Hemophilus Sp	1	0
Klebsiella	2	0
Past Multocida	4	1
Past Sp	3	0
Proteus Sp	3	0
Pseudomonas Sp	7	0
Salmonella Sp	1	3
Serratia	1	0
Staph Aureus	22	1
Staph Sp	36	2
Strep A Hemo	0	2
Strep B Hemo	0	1
Strep Canis	5	0
Strep Sp	6	0
Bronchitis	0	1

CANINE AND FELINE DISEASE

(Airdrie, Fairview, and Lethbridge included)

(Continued)

DISEASE	CANINE	FELINE
Calcinosis Circumscripta	4	0
Cardiac Failure	22	2
Cardiac Tamponade	1	0
Cardiomyopathy	8	0
Cellulitis	4	2
Chilling	0	1
Colitis ulcerative	1	0
Conjunctivitis	1	1
Cyst	3	0
Adnexal	4	1
Epidermoid	5	0
Sebaceous	3	0
Cystic Ovaries	0	1
Cystitis	9	14
Deficiency Malnutrition	7	1
Dehydration	1	1
Dermatitis	45	6
Allergic	8	2
Endocrine	2	1
Dermatomycosis	3	0
Diabetes	1	1
Distemper	12	0
Dystocia	3	3
Emaciation	1	1

CANINE AND FELINE DISEASES

(Airdrie, Fairview, and Lethbridge included)

(Continued)

DISEASE	CANINE	FELINE
Encephalitis		
Nonsuppurative	12	5
Other	3	0
Suppurative	2	1
Encephalopathy C	3	1
Endocardiosis	2	0
Endocarditis	3	0
Enteritis		
Chronic	1	1
Clostridium Sp	1	0
Granulomatous	1	0
Hemorrhagic	2	0
Necrotic	2	0
Protozoa	0	1
Unknown	7	3
Viral	59	1
Epididymitis	1	0
Experimental	2	0
Fatty Metamorpho	1	0
For Culture	93	14
For Cytology	3	1
For Hematology	10	6
For Identification	43	11
For Urinalysis	2	2
Gastric Ulcer	1	0
Gastritis	3	0
Gastroenteritis	1	0
Gingivitis	2	3

CANINE AND FELINE DISEASES

(Airdrie, Fairview, and Lethbridge included)

(Continued)

DISEASE	CANINE	FELINE
Granulation Tissue	5	0
Granuloma	14	6
Growth		
Hyperplasia	5	0
Inflammatory	38	6
Gunshot	1	0
Heat Prostration	1	0
Hematoma	2	0
Hepatic		
Cirrhosis	2	0
Fibrosis	1	0
Lipidosis	1	5
Necrosis	4	1
Hepatitis	4	2
Unknown	2	0
Hernia Diaphragmatic	0	3
Hydrocephalus	3	0
Hyperkeratosis	2	0
Hyperplasia		
Adrenal	3	0
Endometrial	1	1
Pancreas	0	1
Thyroid	0	1
Hypoplasia Adrenal	1	0
Indigestion	1	0
Infarct	1	0
Intussusception	7	0
Keratitis	1	0

CANINE AND FELINE DISEASES

(Airdrie, Fairview, and Lethbridge included)

(Continued)

DISEASE	CANINE	FELINE
Lab Exams Negative	140	42
Leukosis Myelogengenous	1	0
Lymphadenitis	4	1
Male Feminizing Syndrome	1	1
Mastitis	1	0
Meningitis	1	1
Bacterial	2	0
Meningoen Suppurative	1	0
Miscellaneous Lab Findings		
Bones and Joints	1	0
Circulatory	5	1
Digestive	8	2
Eye and Ear	3	0
Hematopoietic	4	2
Liver	4	1
Nervous	1	0
Other	13	2
Reproductive	4	1
Respiratory	4	1
Urinary	1	0
Myco		
Aspergillus	2	0
Microsporum Sp	1	0
Trichophyton Sp		
Yeast	11	0
Myelitis	1	0
Myeloproliferative Disease	2	0
Myiasis	1	0
Myocarditis	2	0
Neoplasm (see table)		

CANINE AND FELINE DISEASES

(Airdrie, Fairview, and Lethbridge included)

(Continued)

DISEASE	CANINE	FELINE
Neo Natal Diarrhea	1	0
Nephritis		
Glomerulo	9	7
Interstitial	1	7
Other	1	1
Pyelo	0	1
Nephrosclerosis	1	0
Nephrosis	1	2
No Diagnosis	60	12
No Test	1	2
No Visible Lesion	9	3
Normal Tissue	3	1
Obstruction Intestinal	3	1
Osteomyelitis	0	1
Otitis	1	0
Externa	18	0
Parasitism (see table)		
Pancreatic Necrosis	7	2
Panleukopenia	0	11
Parakeratosis	1	0
Pending	11	0
Pericarditis	2	0
Peritonitis	5	4
Pleuritis	3	1

CANINE AND FELINE DISEASES

(Airdrie, Fairview and Lethbridge included)

(Continued)

DISEASE	CANINE	FELINE
Pneumonia		
Bacterial	2	0
Broncho	2	0
Granulomatous	1	0
Inhalation	7	1
Interstitial	5	1
Mycotic	1	0
Other	8	0
Parasitic	1	0
Suppurative	7	1
Viral	1	0
Polioencephalomalacia	1	0
Pulmonary Edema	4	1
Pulmonary Fibrosis	0	1
Pyometra	1	0
Pyothorax	1	1
Rabies	1	3
Rabies Negative	24	21
Rhinitis	2	0
Rupture Urinary	0	1
Salmonellosis	1	0
Scabies	1	0
Septicemia		
E coli	3	1
Pasteurella	1	0
Staphylococcal	3	0
Streptococcal	2	0
Unknown	1	0
Shock	3	2
Sialoadenitis	1	0

CANINE AND FELINE DISEASES

(Airdrie, Fairview, Lethbridge included)

(Continued)

DISEASE	CANINE	FELINE
Sinusitis	1	0
Specimen Unsuitable	5	1
Stillborn	2	1
Stomatitis	1	0
Tonsillitis	1	0
Torsion Intestinal	10	0
Torsion		
Mesenteric	1	0
Other	3	0
Toxicosis (see table)		
Toxemia	1	0
Tracheitis	1	2
Trauma	22	21
Ulcer	1	0
Gastric	0	1
Unsatisfactory	1	0
Uremia	0	1
Urethral Obstruction	1	5
Urinary Calculi	3	10
Vaginitis	2	0
TOTAL	1206	334

LABORATORY ANIMALS

(Airdire, Fairview, and Lethbridge included)

DIAGNOSIS	HAMSTER	MOUSE	RAT	TOTAL
Alopecia	1	0	0	1
Bacteria				
Klebsiella	0	0	1	1
Past. Sp	0	0	1	1
Bronchitis	0	0	1	1
Deficiency				
Malnutrition	2	0	1	3
Starvation	0	1	0	1
Dehydration	0	0	1	1
Dermatitis	0	0	2	2
Bacterial	0	0	1	1
Experimental	0	0	1	1
For Culture	0	0	1	1
For Identification	1	1	0	2
Keratitis	0	1	0	1
Lab Exams Negative	0	0	13	13
Metritis	0	0	1	1
Miscellaneous Lab Findings	0	1	0	1
Neoplasm (see table)				
Nephritis Glomerulo	0	1	0	1
No Diagnosis	1	1	0	2
Normal Tissue	0	0	1	1
Parasitism (see table)				
Pneumonia				
Broncho	0	0	4	4
Interstitial	0	2	3	5

LABORATORY ANIMALS

(Airdrie, Fairview, and Lethbridge included)

DIAGNOSIS	HAMSTER	MOUSE	RAT	TOTAL
Pneumonia (Continued)				
Other	0	0	1	1
Suppurative	0	0	1	1
Rabies Negative	0	1	0	1
Sialoadenitis	0	0	1	1
Trauma	1	0	0	1
TOTAL	6	9	35	50

RABBIT DISEASES

(Fairview, Lethbridge, and Airdrie included)

DIAGNOSIS	TOTALS
Abscess	3
Brain	1
Anaphylaxis	1
Bacteria	
C Pyogenes	1
Fusobacterium	1
Listeria Monocytogenes	1
Past Multocida	12
Past Sp	1
Strep Sp	1
Biopsy Uterus	2
Bloat	1
Cardiomyopathy	1
Coccidiosis	
Hepatic	5
Intestinal	5
Deficiency	
Calcium	1
Malnutrition	3
Starvation	1
Dehydration	2
Dermatitis	2
Mycosis	1
Dermatomycosis	1
Encephalitis	
Other	3
Suppurative	1
Endometritis	1
Enterit Unknown	9
For Culture	9

RABBIT DISEASES

(Fairview, Lethbridge, and Airdrie included)

DIAGNOSIS	TOTALS
For Identification	5
Gastroenteritis	1
Goitre	1
Hepatitis	1
Toxic	1
Impact Bowel	1
Impaction	1
Indigestion	1
Lab Exams Negative	8
Meningitis Bacterial	2
Meningoen Suppurative	1
Miscellaneous Lab Findings	
Circulatory	1
Digestive	3
Liver	1
Other	1
Reproductive	1
Myco Trichophyton	1
Myocarditis	2
Myopathy	4
Neoplasm (see table)	
Nephritis Other	1
Nephrosis	1
No Diagnosis	3
No Visible Lesion	3

RABBIT DISEASES

(Fairview, Lethbridge, and Airdrie included)

DIAGNOSIS	TOTALS
Normal Tissue	2
Osteomalacia	1
Parasitism (see table)	
Pericarditis	1
Peritonitis	3
Pleuritis	2
Pneumonia	
Bacterial	1
Broncho	3
Fibrinous	1
Interstitial	1
Other	1
Pasteurella	7
Suppurative	3
Pregnancy Toxemia	1
Rhinitis	2
Septicemia	
Pasteurella	4
Streptococcal	1
Unknown	1
Shock	1
Trauma	2
TOTAL	153

FUR-BEARING ANIMALS

(Airdrie, Fairview, and Lethbridge included)

DISEASE	CHINCHILLA	FOX	MINK	RANCH FOX
Aleutian Disease	0	0	4	0
Bacteria				
Staph Aureus	1	0	0	0
Strep Zooepidemicus	0	0	1	0
Bloat	0	0	0	2
Cystitis	0	0	1	0
Deficiency Malnutrition	2	0	0	0
Dermatitis	2	0	0	0
Dermatomycosis	2	0	0	0
Emaciation	1	0	0	0
Enterit				
Catarrhal	1	0	0	0
Unknown	1	0	0	0
For Culture	1	0	0	0
For Identification	0	0	4	0
For Serology	0	0	24	0
Gastritis	1	0	0	0
Heat Prostration	0	0	1	0
Hepatitis	1	0	0	0
Hyperpl Adrenal	1	0	0	0
Lab Exams Negative	2	0	0	0
Listeriosis	3	0	0	0
Malocclusion	1	0	0	0
Metritis	1	0	0	0

FUR-BEARING ANIMALS

(Airdrie, Fairview, and Lethbridge included)

DISEASE	CHINCHILLA	FOX	MINK	RANCH FOX
Miscellaneous Lab Findings				
Other	0	1	0	0
Reproductive	0	0	2	0
Myocarditis	0	0	1	0
Nephritis Other	0	0	1	0
Nephrosis	1	0	1	0
No Diagnosis	1	1	1	0
No Visible Lesion	0	0	1	0
Orchitis	0	0	2	0
Parasitism Giardia Sp	1	0	0	0
Parasitism Mites	0	0	0	1
Pyothorax	0	0	1	0
Rabies Negative	0	0	1	0
Septicemia				
Pasteurella	0	0	1	0
Pseudomonas	1	0	0	0
Unknown	0	0	4	1
Torsion Stomach	0	0	0	1
Trauma	1	0	1	0
TOTAL	26	2	52	5

FISH, AMPHIBIAN & REPTILE DISEASES

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
FISH					
Dermatitis	0	0	2	0	2
F-ICH	0	1	0	0	1
For Identification	0	1	0	0	1
Lab Exams Negative	1	0	1	0	2
Miscellaneous Lab Findings Other	0	2	0	1	3
Neoplasm Other	0	0	0	1	1
No Diagnosis	0	4	0	0	4
No Visible Lesion	0	0	0	3	3
Pending	0	0	1	2	3
Suitable Animals	0	0	0	1	1
Suitable for Human Use	0	1	0	0	1
Unsuitable Animals	0	0	1	0	1
AMPHIBIAN					
For Identification	1	0	0	0	1
Osteoporosis	1	0	0	0	1
Septicemia Seromonas	1	0	0	0	1
Unsatisfactory	1	0	0	0	1
REPTILE					
Abscess	1	0	0	0	1
Anemia Other	2	0	0	0	2
Bacteria Salmonella Sp	4	0	0	0	4

FISH, AMPHIBIAN & REPTILE DISEASES

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
REPTILE (Continued)					
Cystitis	1	0	0	0	1
Emaciation	1	0	0	0	1
For Culture	8	0	0	0	8
For Identification	0	2	0	0	2
Gastritis	1	1	0	0	2
Gout	0	1	0	0	1
Granuloma	1	0	0	0	1
Lab Exams Negative	1	0	0	0	1
Nephritis Other	1	0	0	0	1
Nephrosis	1	0	0	0	1
No Diagnosis	1	2	0	0	3
Parasitism					
Microfilaria	1	0	0	0	1
Other	1	1	0	0	2
Pneumonia					
Bacterial	1	0	0	0	1
TOTAL	31	16	5	8	60

EXOTIC PETS, WILDLIFE, ZOO ANIMALS DISEASES

(Airdrie, Fairview, and Lethbridge included)

DIAGNOSIS	EXOTIC PETS	WILD ANIMALS	ZOO ANIMALS
Abortion Idiopathic	0	1	1
Other	1	0	0
Abscess	0	10	1
Alopecia	1	0	0
Anemia Hemorrhage	2	0	0
Aneurysm	1	0	0
Anomaly Cardiovascular	0	0	1
Bacteria			
C Pyogenes	0	1	1
E coli	0	2	1
E coli Hemo	0	0	1
Enterobacter	1	0	0
Past Multocida	0	3	0
Past Sp	1	0	1
Proteus Sp	0	0	1
Salmonella Sp	0	6	1
Serratia	0	0	1
Staph Aureus	0	0	1
Bloat	0	1	1
Bronchitis	1	0	0
Candidiasis	0	1	0
Cardiomyopathy	1	1	1
Coccidios Hepatic	0	1	0
Colitis	1	0	0
Conjunctivitis	1	1	0
Cystitis	0	1	0
Deficiency			
Malnutrition	0	5	2

EXOTIC PETS, WILDLIFE, ZOO ANIMALS DISEASES

(Airdrie, Fairview, and Lethbridge included)

DIAGNOSIS	EXOTIC PETS	WILD ANIMALS	ZOO ANIMALS
Deficiency (Continued)			
Starvation	0	1	1
Dermatitis	2	0	1
Distemper	0	1	0
Emaciation	4	13	3
Encephalitis Nonsuppurative	1	1	0
Enteritis			
Hemorrhage	1	0	0
Necrotic	0	0	1
Unknown	1	2	4
Viral	0	1	0
Experimental	0	0	1
Feed Analysis	1	0	0
Fibrosis	0	1	1
For Culture	8	10	4
For Identification	1	25	15
For Serology	0	9	0
Fracture	0	1	0
Gastritis	2	0	0
Gizzard Impaction	1	0	0
Gizzard Ulceration	1	0	0
Granulation Tissue	0	0	1
Granuloma	0	1	0
Gunshot	0	2	0

EXOTIC PETS, WILDLIFE, ZOO ANIMALS DISEASES

(Airdrie, Fairview, and Lethbridge included)

DIAGNOSIS	EXOTIC PETS	WILD ANIMALS	ZOO ANIMALS
Hatching Problem	1	0	0
Hemorrhage Disease	0	1	0
Hepatic Lipidosis	1	0	0
Hepatic Necrosis	1	0	0
Hepatitis	2	1	3
Bacterial	0	0	1
Unknown	1	1	0
Hernia Abdominal	0	1	0
Histomoniasis	1	0	0
Hyperkeratosis	1	0	0
Hyperpl Thyroid	2	0	0
Impaction	1	1	0
Infectious Feline Peritonitis	0	1	0
Infectious Laryngotracheitis	2	0	0
Lab Exams Negative	10	36	5
Laryngitis	0	0	1
Leukosis Lymphoid	1	0	0
Listeriosis	0	1	0
Meningitis	0	0	1
Miscellaneous Laboratory Findings			
Circulatory	0	0	1
Digestive	2	4	2
Hematopoietic	0	0	1
Muscle	0	1	0
Other	3	8	0
Reproductive	0	4	0

EXOTIC PETS, WILDLIFE, ZOO ANIMALS DISEASES

(Airdrie, Fairview, and Lethbridge included)

DIAGNOSIS	EXOTIC PETS	WILD ANIMALS	ZOO ANIMALS
Miscellaneous Lab Findings (Continued)			
Respiratory	0	1	1
Urinary	0	0	1
Myocarditis	0	0	1
Myopathy	0	1	0
Negative Salmonella	1	0	0
Neoplasms (see table)			
Nephritis			
Glomerulo	0	0	3
Interstitial	0	0	2
Other	1	0	2
Nephrosclerosis	0	0	2
No Diagnosis	14	7	5
No Test	1	1	0
No Visible Lesion	2	5	0
Normal Tissue	0	5	0
Omphalophlebitis	0	0	1
Osteomalacia	1	0	0
Osteoporosis	1	0	0
Otitis Media	0	0	1
Parasitism			
Coccidia	1	0	0
Ostertagia Sp	1	0	0
Pending	0	1	0
Peritonitis	0	2	1
Pleuritis	0	1	0

EXOTIC PETS, WILDLIFE, ZOO ANIMALS DISEASE

(Airdrie, Fairview, and Lethbridge included)

DIAGNOSIS	EXOTIC PETS	WILD ANIMALS	ZOO ANIMALS
Pneumonia			
Bacterial	1	2	0
Broncho	0	4	0
Fibrinous	0	0	1
Gangrenous	0	0	1
Inhalation	1	0	1
Interstitial	0	1	0
Mycotic	0	0	1
Other	0	1	0
Parasitic	0	3	0
Pox	1	0	0
Pulmonary Edema	1	1	1
Pyometra	0	1	0
Pyothorax	0	1	0
Rabies	0	1	0
Rabies Negative	0	32	2
Rumen Overload	0	2	1
Rupture			
Bladder	0	1	0
Liver	1	0	1
Urinary	0	1	0
Septicemia			
E coli	1	0	0
Pasteurella	0	1	0
Staphylococcus	1	0	1
Streptococcal	1	0	0
Unknown	0	0	3
Specimen Unsuitable	2	1	0
Starve Out	1	1	0
Stress	0	2	0

EXOTIC PETS, WILDLIFE, ZOO ANIMALS DISEASES

(Airdrie, Fairview, and Lethbridge included)

DIAGNOSIS	EXOTIC PETS	WILD ANIMALS	ZOO ANIMALS
Suitable for Human Use	0	5	0
Torsion			
Abomasum	0	1	0
Intestinal	0	0	1
Toxicosis (see table)			
Tracheitis	1	0	0
Trauma	4	9	3
Tuberculosis	4	0	0
Typhlitis	1	0	0
Ulcer	0	1	0
Gastric	0	1	0
Unsuitable Animals	0	1	0
Urethral Obstruction	0	1	0
Urinary Calculi	0	1	0
TOTAL	107	262	99

RABIES SUMMARY

SPECIES	LOCATION	NUMBER POSITIVE	DATE CONFIRMED
Skunk	Co. of Warner	1	January 23
Skunk	Co. of Warner	1	February 1
* Dog	Special Area #2	1	February 2
Skunk	Co. of Newell	1	February 14
Skunk	Co. of Newell	2	April 16
Bat	City of Lethbridge	1	June 1
Bat	M.D. 44	1	June 15
Bat	City of Lethbridge	1	June 26
Skunk	Co. of Warner	1	July 30
Bat	City of Lethbridge	1	August 28
Bat	City of Drumheller	1	August 30
Skunk	Co. of Warner	1	December 17

TOTALS		
	SKUNKS	7
	BATS	5
	* DOG	1
		13

* Dog likely contacted rabies in Bassano District, Co. of Newell

MISCELLANEOUS BIRDS

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
BUDGIE					
Air Sacculitis	3	1	0	0	4
Anemia Hemorrhage	1	0	0	0	1
Anomaly					
Cardiovascular	1	0	0	0	1
Endocrin	1	0	0	0	1
Candidiasis	1	0	0	0	1
Cardiac Failure	1	0	0	0	1
Cardiomyopathy	2	0	0	0	2
Chlamydiosis	1	1	0	0	2
Coccidios Intestinal	0	0	0	1	1
Deficiency Malnutrition	0	1	0	0	1
Dermatitis	0	2	0	0	2
Emaciation	6	2	0	0	8
Enterit Unknown	1	1	0	0	2
Gizzard Erosion	1	0	0	0	1
Gout Visceral	1	0	0	0	1
Hemorrhage Liver	1	0	0	0	1
Hepatic					
Fibrosis	1	0	0	0	1
Lipidosis	0	0	0	1	1
Hepatitis	2	3	0	0	5
Bacterial	1	0	0	0	1
Unknown	4	0	0	0	4
Hyperpl Thyroid	12	0	0	0	12
Impaction	0	0	0	1	1

MISCELLANEOUS BIRDS

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Impaction	0	0	0	1	1
Lab Exams Negative	1	4	0	0	5
Leukoencephalomalacia	0	0	0	1	1
Leukosis Myelogenous	1	0	0	0	1
Miscellaneous Lab Findings					
Digestive	0	0	0	1	1
Hematopoietic	2	0	0	0	2
Liver	0	1	0	0	1
Other	0	1	0	0	1
Respiratory	0	1	0	0	1
Urinary	2	0	0	0	2
Myco Aspergillus	1	0	0	0	1
Neoplasms					
Adenoc	3	0	0	0	3
Adenoc Ovary	1	0	0	0	1
Carc Undifferentiated	1	0	0	0	1
Carcinoma	2	0	0	0	2
Embryonal Nephroma	2	0	0	0	2
Fibrosarcoma	3	0	0	0	3
Lipoma	1	0	0	1	2
Lymphosarcoma	4	1	0	0	5
Myelosarcoma	2	0	0	0	2
Sarcoma Undifferentiated	2	0	0	0	2
Nephrosis	3	0	0	0	3
No Diagnosis	7	3	0	5	15
Obesity	1	0	0	0	1
P Mites	3	0	0	0	3
Pending	0	0	0	1	1
Peritonitis	1	0	0	0	1
Pneumonia					
Interstitial	1	0	0	0	1
Mycotic	1	0	0	0	1

MISCELLANEOUS BIRDS

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Pulmonary Edema	1	0	0	0	1
Salmonellosis	1	0	0	0	1
Septicem Unknown	1	0	0	0	1
Shock	1	0	0	0	1
Steatitis	0	1	0	0	1
Stress	1	0	0	0	1
Toxicosis Unknown	0	1	0	0	1
Tracheitis	1	0	0	0	1
Trauma	1	0	0	0	1
Ulcer Gizzard	1	0	0	0	1
CANARY					
Air Sacculitis	3	0	0	0	3
Anemia Hemorrhage	1	0	0	0	1
Aspergillosis	1	0	0	0	1
Emaciation	0	1	0	0	1
Gizzard Erosion	1	0	0	0	1
Hepatitis	1	1	0	0	2
Toxic	1	0	0	0	1
Unknown	3	0	0	0	3
Hyperpl Thyroid	2	0	0	0	2
Impaction Bowel	1	0	0	0	1
Lab Exams Negative	1	0	0	0	1
Miscellaneous Lab Findings					
Nervous	0	1	0	0	1
Respiratory	1	0	0	0	1

MISCELLANEOUS BIRDS

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Neoplasms					
Carcinoma	1	0	0	0	1
Lymphosarcoma	4	0	0	0	4
Nephritis Other	0	1	0	0	1
No Diagnosis	6	3	0	0	9
No Test	1	0	0	0	1
No Visible Lesion	1	0	0	1	2
Parasitism					
Mites	5	0	0	0	5
Other	1	0	0	0	1
Peritonitis	2	0	0	0	2
Pneumonia					
Broncho	1	0	0	0	1
Granulomatous	1	0	0	0	1
Rhinitis	0	1	0	0	1
Specimen Unsuitable	1	0	0	0	1
Splenic Hyperplasia	0	0	0	1	1
Stress	2	0	0	0	2
Trauma	1	0	0	0	1
COCKATEEL					
Air Sacculitis	6	6	0	0	12
Aspergillosis	1	0	0	0	1
Bacteria					
Past Sp	1	0	0	0	1
Candidiasis	2	0	0	0	2
Cardiac Failure	2	0	0	0	2

MISCELLANEOUS BIRDS

(Continued) DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Cardiomyopathy	1	1	0	0	2
Chlamydiosis	3	3	0	1	7
Cyst Epidermoid	1	0	0	0	1
Deficiency Malnutrition	0	1	0	0	1
Eggbound	1	0	0	0	1
Emaciation	3	0	0	0	3
Enteritis Unknown	0	1	0	0	1
For Culture	7	0	0	0	7
Hepatic					
Fibrosis	1	0	0	0	1
Lipidosis	1	1	0	0	2
Hepatitis	1	1	0	0	2
Viral	1	2	0	0	3
Unknown	6	1	0	0	7
Hyperkeratosis	1	0	0	0	1
Hyperpl Thyroid	5	0	0	0	5
Impaction					
Bowel	1	0	0	0	1
Oviduct	1	0	0	0	1
Lab Exams Negative	7	5	0	2	14
Miscellaneous Lab Findings					
Bones & Joints	0	1	0	0	1
Digestive	1	0	0	0	1
Other	3	0	0	0	3
Respiratory	0	1	0	0	1
Neoplasms					
Other	1	0	0	0	1
Sarcoma	1	0	0	0	1
Necrosis Beak	1	0	0	0	1

MISCELLANEOUS BIRDS

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Nephrosis	6	1	0	0	7
No Diagnosis	4	2	1	0	7
Osteomalacia	1	0	0	0	1
Pancreatic Necrosis	0	1	0	0	1
Pending	1	0	0	0	1
Pericarditis	0	2	0	0	2
Pneumonia Mycotic	2	0	0	0	2
Rhinitis	1	0	0	0	1
Salmonellosis	1	0	0	0	1
Septicem Unknown	1	0	0	0	1
Sinusitis	2	0	0	0	2
Specimen Unsuitable	1	0	0	0	1
Stomatitis	0	2	0	0	2
Stress	3	0	0	0	3
Tracheitis	1	0	0	0	1
Trauma	3	1	0	0	4
Xanthomatosis	0	1	0	0	1
DUCK					
Anemia Other	1	0	0	0	1
Arthritis Suppurative	1	0	0	0	1
Aspergillosis	2	0	0	1	3
Bacteria Salmonella Sp	0	0	0	1	1

MISCELLANEOUS BIRDS

(Continued) DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Botulism	1	0	0	0	1
Bumblefoot	1	0	0	0	1
Cardiomyopathy	0	1	0	0	1
Deficiency Malnutrition	0	0	1	0	1
Emaciation	1	1	0	0	2
Gout	1	0	0	0	1
Impaction	0	0	0	1	1
Infection Yolk Sac	0	1	0	0	1
Keratoconjunctivitis	1	0	0	0	1
Leukocytozoon	1	0	1	0	2
Meningoen Suppurative	0	0	0	1	1
Miscellaneous Lab Finding Digestive	1	0	0	0	1
No Diagnosis	2	3	0	0	5
No Test	1	0	0	0	1
Omphalitis	1	0	0	0	1
Parasitism Acanthocephala	1	0	0	0	1
Pending	0	0	0	3	3
Perosis	0	1	0	0	1
Pneumonia Broncho	2	0	0	0	2
Pulmonary Edema	0	1	0	0	1
Rickets	1	0	0	0	1

MISCELLANEOUS BIRDS

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Sarcosporidiosis	1	0	1	0	2
Spraddle Leg	0	1	0	0	1
Starve Out	0	1	0	0	1
Trauma	0	0	0	2	2
Vegetative Endocarditis	1	0	0	0	1
GOOSE					
Arthritis Suppurative	1	0	0	0	1
Ascites	1	0	0	0	1
Aspergillosis	0	1	0	0	1
Bacteria					
Past Multocida	0	0	0	1	1
Bumblefoot	1	0	0	0	1
Cardiac Failure	3	0	0	0	3
Coccidiosis Intestinal	1	0	0	0	1
Deficiency					
Malnutrition	0	0	1	1	2
Starvation	0	0	1	0	1
Dehydration	1	0	0	0	1
Emaciation	2	0	0	1	3
Feed Analysis	1	0	0	0	1
Fowl Cholera	0	2	0	0	2
Lab Exams Negative	2	0	0	0	2
Nephrosis	4	0	0	0	4
No Diagnosis	4	0	0	0	4
No Test	1	0	0	0	1

MISCELLANEOUS BIRDS

(Continued) DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Omphalitis	1	0	0	0	1
Otitis Media	1	0	0	0	1
Peritonitis	0	0	0	2	2
Pleuritis	1	0	0	0	1
Pneumonia					
Broncho	1	0	0	0	1
Mycotic	1	0	0	0	1
Rickets	1	0	0	0	1
Septicem Pasteurella	0	0	0	1	1
Starve Out	1	0	0	0	1
Suitable Animals	1	0	0	0	1
Trauma	1	0	0	0	1
PARAKEET					
Chlamydiosis	0	1	0	0	1
Deficiency Malnutrition	1	1	0	0	2
Fatty Liver Syndrome	0	1	0	0	1
Hepatitis	1	0	0	0	1
Unknown	2	0	0	0	2
Infectious Sinusitis	1	0	0	0	1
Miscellaneous Lab Findings					
Other	0	1	0	0	1
Neoplasm					
Carcinoma Undifferentiated	1	0	0	0	1
Ependymoma	0	0	0	1	1
Lymphosarcoma	1	0	0	0	1
Nephritis Interstitial	1	0	0	0	1
Nephrosis	1	0	0	0	1

MISCELLANEOUS BIRDS

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
No Diagnosis	4	0	0	0	4
Specimen Unsuitable	1	0	0	0	1
PARROT					
Air Sacculitis	3	1	0	0	4
Anemia Hemorrhage	1	0	0	0	1
Bacteria					
Staph Aureus	1	0	0	0	1
Chlamydiosis	3	1	0	0	4
Conjunctivitis	1	0	0	0	1
Deficiency					
Vitamin A	0	2	0	0	2
Emaciation	1	0	0	0	1
Enteritis Unknown	1	2	0	0	3
For Culture	1	0	0	0	1
For Identification	2	0	0	0	2
Fracture	1	0	0	0	1
Hepatitis	1	0	0	0	1
Viral	2	0	0	0	2
Bacterial	2	0	0	0	2
Unknown	1	0	0	0	1
Lab Exams Negative	4	0	0	0	4
Miscellaneous Lab Findings					
Circulatory	2	0	0	0	2
Myocarditis	1	0	0	0	1
Myopathy Nutritional	0	1	0	0	1
Neoplasms					
Lipoma	1	0	0	0	1

MISCELLANEOUS BIRDS

(Continued) DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Neoplasms (Continued)					
Sarcoma Reticulum Cell	1	0	0	0	1
Nephritis					
Interstitial	1	0	0	0	1
Nephrosis	1	1	0	0	2
No Diagnosis	1	1	0	0	2
Osteoporosis	1	0	0	0	1
Parasitism					
Tapeworms	1	0	0	0	1
Unidentified	0	1	0	0	1
Pneumonia					
Inhalation	1	0	0	0	1
Mycotic	1	0	0	0	1
Salmonellosis	2	1	0	0	3
Septicemia					
E coli	0	1	0	0	1
Unknown	2	1	0	0	3
Specimen Unsuitable	1	0	0	0	1
Tuberculosis	1	0	0	0	1
PHEASANT					
Arthritis Staphylococcus	1	0	0	0	1
Cannibalism	0	6	0	0	6
Cardiac Failure	0	3	0	0	3
Coccidiosis					
Cecal	1	0	0	0	1
Intestinal	1	0	0	0	1
Coligranuloma	0	0	0	1	1
Deficiency Malnutrition	0	1	0	0	1

MISCELLANEOUS BIRDS

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Dehydration	1	0	0	0	1
Eggbound	0	1	0	0	1
Emaciation	3	0	0	0	3
Encephalitis Other	1	0	0	0	1
Enteritis Viral	1	0	0	0	1
Feed Analysis	0	1	0	0	1
For Culture	1	0	0	0	1
For Identification	1	0	0	0	1
Gout Visceral	0	3	0	0	3
Hepatitis					
Necrotic	1	0	0	0	1
Unknown	0	1	0	0	1
Impaction Bowel	1	1	0	0	2
Infectious Yolk Sac	0	1	0	0	1
Lab Exams Negative	2	0	0	0	2
Myco Candida Sp	1	0	0	0	1
Myopathy Nutritional	1	0	0	0	1
Negative					
Salmonella	2	1	0	0	3
Salmonella Para	2	0	0	0	2
No Diagnosis	0	5	1	0	6
Parasitism					
Lice	1	0	0	0	1
Mites	1	0	0	0	1
Pending	0	1	0	0	1
Pneumonia					
Mycotic	0	1	0	0	1

MISCELLANEOUS BIRDS

(Continued) DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Reproductive Disorder	1	0	0	0	1
Satisfactory	0	1	0	0	1
Septicemia Unknown	0	1	0	0	1
Sinusitis	0	1	0	0	1
Starve Out	0	2	0	0	2
Toxicosis					
Negative	0	0	0	1	1
Tracheitis	0	2	0	0	2
Trauma	2	1	0	0	3
Tuberculosis	1	0	0	0	1
Typhlitis	1	0	0	0	1
PIGEON					
Abscess	0	1	0	0	1
Air Sacculitis	2	0	0	0	2
Candidiasis	1	0	0	0	1
Cardiomyopathy	2	0	0	0	2
Deficiency Malnutrition	1	0	0	0	1
Emaciation	1	0	1	0	2
Enteritis					
Necrotic	0	0	1	0	1
Ulcerative	0	0	0	2	2
Experimental	0	0	0	2	2
For Culture	2	0	0	0	2
For Identification	1	1	0	0	2
Gizzard Perforation	1	0	0	0	1

MISCELLANEOUS BIRDS

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Gunshot	0	0	0	1	1
Hepatitis					
Necrotic	1	0	0	0	1
Viral	1	0	0	0	1
Unknown	2	0	0	0	2
Neoplasms					
Adenoc Ovary	0	0	0	1	1
Lymphosarcoma	0	1	0	1	2
Negative Salmonella	1	0	0	0	1
No Diagnosis	3	0	0	0	3
No Test	1	0	0	0	1
No Visible Lesion	1	0	0	1	2
Osteomyelitis	1	0	0	0	1
Parasitism					
Capillaria Sp	1	0	0	2	3
Coccidia	1	0	0	1	2
Trichomonas	0	2	0	1	3
Pneumonia					
Bacterial	2	0	0	0	2
Salmonellosis	3	1	0	0	4
Septicemia					
E coli	1	0	0	0	1
Staphylococcus	1	0	0	0	1
Unknown	0	1	0	0	1
Unsuitable	0	1	0	0	1
Toxicosis					
Drugs	0	1	0	0	1
Negative	0	0	0	1	1
Other	0	0	1	0	1
Tracheitis	1	1	0	0	2
Trauma	0	2	0	1	3

MISCELLANEOUS BIRDS

(Continued) DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Tuberculosis	0	1	0	0	1
Unsuitable Animals	0	0	1	0	1
WILD BAT					
Rabies Negative	45	0	0	0	45
WILD BIRD					
Air Sacculitis	0	2	0	0	2
Arteriosclerosis	2	0	0	0	2
Bacteria					
E coli	0	1	0	0	1
Salmonella Sp	0	1	0	0	1
Staph Aureus	0	1	0	0	1
Blepharitis	1	0	0	0	1
Cannibalism	0	2	0	0	2
Cardiac Failure	0	0	1	0	1
Cataract	1	0	0	0	1
Chilling	0	1	0	0	1
Crop Mycosis	0	1	0	0	1
Deficiency					
Malnutrition	0	2	0	0	2
Vitamin A	0	1	0	0	1
Dehydration	1	2	0	0	3
Electrocution	0	0	0	1	1
Emaciation	4	2	0	0	6
Enteritis					
Hemorrhage	0	1	0	0	1
Unknown	0	2	0	0	2
For Identification	0	1	0	1	2

MISCELLANEOUS BIRDS

(Continued)

DISEASE	EDMONTON	AIRDIRE	FAIRVIEW	LETHBRIDGE	TOTAL
Fracture	1	0	0	0	1
Gizzard Perforation	1	0	0	0	1
Gout	0	1	0	0	1
Visceral	1	2	0	0	3
Hatching Problem	3	0	0	0	3
Hepatitis					
Inclusion	0	1	0	0	1
Viral	0	1	0	0	1
Histomoniasis	1	1	0	0	2
Impaction	0	1	0	0	1
Bowel	0	1	0	0	1
Infectious					
Laryngotracheitis	0	1	0	0	1
Yolk Sac	0	1	0	0	1
Lab Exams Negative	0	3	0	1	4
Miscellaneous Lab Findings					
Circulatory	1	0	0	0	1
Other	2	2	0	0	4
Reproductive	4	0	0	0	4
Myocarditis	0	1	0	0	1
Neoplasm Lymphosarcoma	1	0	0	0	1
Negative Salmonella	0	4	0	0	4
No Diagnosis	0	9	0	1	10
No Visible Lesion	0	0	0	2	2
Obstruct Intestinal	0	1	0	0	1
Pending	0	0	0	1	1
Peritonitis	0	2	0	0	2

MISCELLANEOUS BIRDS

(Continued)

DISEASE	EDMONTON	AIRDIRE	FAIRVIEW	LETHBRIDGE	TOTAL
Pneumonia					
Broncho	0	1	0	0	1
Mycotic	1	0	0	0	1
Salmonellosis	1	0	0	0	1
Starve Out	0	4	0	1	5
Toxicosis					
Negative	0	0	0	1	1
Other	0	1	0	0	1
Strychnine	1	2	0	0	3
Trauma	4	7	1	0	12
ZOO BIRD					
Abscess	0	0	0	1	1
Brain	0	1	0	0	1
Anomaly Nervous	0	0	1	0	1
Ascites	0	1	0	0	1
Bacteria					
Salmonella Sp	1	0	0	0	1
Staph Aureus	1	0	0	0	1
Emaciation	1	0	0	0	1
Encephalopathy Coccidial	0	1	0	0	1
Endocarditis	1	0	0	0	1
Enteritis Unknown	0	1	0	0	1
Fatty Liver Syndrome	0	1	0	0	1
For Culture	3	0	0	0	3
For Identification	0	1	0	0	1
Fowl Cholera	0	0	1	0	1
Gizzard Necrosis	1	0	0	0	1

MISCELLANEOUS BIRDS

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Gizzard Perforation	1	0	0	0	1
Hepatic Fibrosis	0	1	0	0	1
Hepatitis Bacterial	1	1	0	0	2
Lab Exams Negative	2	0	0	0	2
Leg Weakness	0	1	0	0	1
Miscellaneous Lab Findings					
Other	0	1	0	0	1
Myco Candida Sp	0	1	0	0	1
Mycosis	0	1	0	0	1
Myocarditis	1	0	0	0	1
No Diagnosis	2	4	1	0	7
Pasted Vent	0	1	0	0	1
Septicemia					
Streptococcal	0	1	0	0	1
Unknown	0	2	0	0	2
Stomatitis	0	1	0	0	1
Trauma	0	1	0	0	1
TOTAL	484	232	16	60	792

MISCELLANEOUS & OTHER SUBMISSIONS
(Feed, water, human, etc.)

(Fairview, Lethbridge, and Airdrie included)

DIAGNOSIS	TOTALS
Bacteria	
E coli	1
Enterobacter	1
Hemophilus Sp	1
Pseudomonas Sp	2
Salmonella Sp	2
Staph Sp	1
Strep Sp	1
Treponema	1
Deficiency	
Vitamin C	1
Copper	1
Dehydration	1
Experimental	6
Feed Analysis	5
For Culture	10
For Identification	19
Fracture	1
Hepatic Necrosis	1
Hepatitis Unknown	2
Infectious Coryza	1
Lab Exams Negative	62
Leukosis Lymphoid	1
Miscellaneous Lab Findings	
Liver	2
Other	4
Myco Aspergillus	1

MISCELLANEOUS & OTHER SUBMISSIONS
(Feed, water, human, etc.)

(Fairview, Lethbridge, and Airdrie included)

(Continued)

DIAGNOSIS	TOTALS
Neoplasms	
Carcinoma Squamous	1
Other	2
Sarcoid	1
No Diagnosis	13
No Test	6
Normal Tissue	1
Pending	4
Rabies Negative	1
Satisfactory	1
Specimen Unsuitable	1
Suitable Animals	35
Suitable for Human Use	1
Toxicosis	
Dicoumarin	2
Negative	3
Nitrate	1
Other	2
Plant	1
Sodium Ion	1
Strychnine	1
Warfarin	2
Trauma	1
Tuberculosis	1
Unsatisfactory	2
Unsuitable Animals	3
TOTAL	215

FETAL EXAMINATIONS

(Fairview, Airdrie, & Lethbridge Laboratories included)

Disease	BOVINE	PORCINE	OVINE	EQUINE
BACTERIAL				
Bacillus	24	-	-	-
Brucella	1	-	-	-
Coliforms	10	-	-	-
Corynebacterium	37	12	1	0
Hemophilus	-	-	-	-
Listeria	3	-	-	-
Streptococcus	18	6	-	8
Campylobacter	7	-	2	-
Staphylococcus	5	-	-	2
Bacterial (U.D.O.)	83	10	7	12
Leptospirosis	6	9	-	-
Other #1	25	3	-	2
VIRAL				
B.V.D.	10 (3)	-	-	-
E.A.E.	-	-	17 (6)	-
E.V.R.	-	-	-	4 (4)
I.B.R.	50 (44)	-	-	-
P.I.3	4 (4)	-	-	-
SMEDI	-	24 (9)	-	-
VIRAL (U.D.O.)	18 (18)	41 (9)	-	-
MYCOTIC				
Aspergillus	13	-	-	-
Mucor	11	-	-	-
Mycotic (U.D.O.)	11	-	-	-
NUTRITIONAL				
Iodine Deficiency	-	-	3	-
Malnutrition	4	-	4	-
Selenium Deficiency	1	-	-	-
Vitamin Deficiency	-	1	-	-

FETAL EXAMINATIONS

(Fairview, Airdrie, & Lethbridge Laboratories included)

Disease	Bovine	Porcine	Ovine	Equine
CONGENITAL DEFECT				
Alimentary System	4	-	-	-
Bood & Immune System	-	-	-	-
Cardiovascular System	21	1	-	-
Eyes & Ears	-	-	-	-
Musculoskeletal System	23	3	1	1
Nervous System	7	-	-	-
Skin, Appendages & Connective Tissues	2	-	-	-
Urogenital Tract	2	-	-	1
Multiple, Metabolic & Other Defects	66	1	1	3
MISCELLANEOUS				
Twinning	16	-	-	4
Dystocia	44	5	6	5
Mummified	42	4	5	-
Specimen Unsuitable	13	7	1	5
Trauma	1	-	-	-
For Identification	16	2	-	4
Other #3	60	8	1	11
PARVO SURVEY (Positive)	-	40	-	-
(Negative)	-	-	-	-
NO DIAGNOSIS	572	161	23	74
TOTAL SPECIES	1230	338	72	136

GRAND TOTAL OF ALL SPECIES 1776

FETAL EXAMINATIONS (Continued)

Edmonton Lab Only:

Examinations done for diagnosis of reproductive dysgenesis and disease:

Referrals from other labs	14
Blood Tests	198
Semen Evaluations	14
Biopsies	53
Genital Examinations	
Cervical Mucus	295

* Numbers in parenthesis indicates either herd or flock.

FETAL EXAMINATIONS (Continued)

#1 Yersina
Mixed Infection
Pasteurella
Nocardia
Proteus
Klebsiella pneumonia
Actinobacter
Alcaligenes
Flavobacterium
Salmonella

#3 Seasonal Asnestrus
MLF Reproductive
Placentitis
Metritis
Pine Needle Abortion
Myocarditis
Pneumonia Other
Stress
Pneumonia Inhalation
Hypocalcemia
Fracture
N Polyp
Orchitis
Seminal Vessiculitis
Mastitis
Keratitis
Fibrosis
Edema
N Granulosa Cell
N Lymphosarcoma
Cold Injury
Stillborn
Premature

PARASITES

(Lethbridge, Fairview, and Airdrie included)

	BOVINE	OVINE	EQUINE	PORCINE	CAPRINE	CANINE
Protozoa						
Coccidia	79	9	0	0	4	1
Cryptosporidium	5	0	0	0	0	0
Giardia	0	0	0	0	0	1
Sarcocystis	1	0	0	0	0	1
Cestodes						
Cysticercus	0	0	0	0	0	0
Moniezia	1	2	0	0	1	0
Tapeworms	1	0	0	0	0	0
Nematodes						
Ascarids	0	0	1	5	0	1
Capillaria	2	0	0	0	0	0
Dictyocaulus	4	0	1	0	0	0
Haemonchus	1	3	0	0	1	0
Lungworms	3	0	1	0	0	0
Nematodirus	3	3	0	0	0	0
Ostertagia	3	0	0	0	2	0
Parascaris equorum	0	0	5	0	0	0
Strongyles	30	4	27	0	1	0
Toxocara/Toxascaris	0	0	0	0	0	2
Trichuris	1	0	0	1	0	0
Arthropods						
Lice	8	0	0	1	2	0
Mites	1	0	0	0	0	0
Chorioptes	4	0	0	0	0	0
Sarcoptes	4	0	0	4	0	0
Ticks	0	0	1	0	0	0
Mixed Infections	43	2	2	1	6	0
Other	10	4	3	2	3	2
TOTAL	204	27	41	16	20	8

PARASITES

(Continued)

(Lethbridge, Fairview, and Airdire included)

	FELINE	LAB ANIMALS	RABBIT	CHICKEN	OTHER
Protozoa					
Coccidia	0	1	13	3	10
Giardia	0	1	0	0	0
Cestodes					
Cysticercus	0	0	0	0	4
Tapeworms	0	0	0	0	3
Nematodes					
Ascarids	0	0	0	4	1
Capillaria	0	0	0	2	1
Dictyocaulus	0	0	0	0	1
Ostertagia	0	0	0	0	1
Strongyloides	0	0	0	0	5
Toxocara/Toxascaris	0	0	0	0	2
Arthropods					
Lice	0	0	0	3	1
Mites	0	2	0	4	1
Sarcoptes	0	0	0	0	1
Ticks	0	0	0	0	2
Mixed Infections	0	0	1	1	7
Other	1	1	5	2	46
TOTAL	1	5	19	19	86

TOXICOSES

(Lethbridge, Fairview and Airdrie included)

	BOVINE	OVINE	EQUINE	CANINE
Algae	0	0	1	0
Ammonia	1	0	0	0
Arsenic	0	0	0	1
Chlor Hydrocarbon	2	0	0	0
Copper	1	5	0	0
Ergot	2	0	0	0
Ethylene Glycol	0	0	0	2
Fuel Oil	3	0	0	0
Lead	21	0	0	0
Negative	4	1	0	12
Nitrate	5	0	0	0
Organophosphate	1	0	0	0
Other	4	1	2	1
Oxalate	0	0	0	2
Petroleum	6	0	0	0
Plant	0	0	2	0
Sodium Ion	2	0	0	0
Strychnine	1	0	0	78
Unknown	8	1	1	6
Urea	2	0	0	0
Vitamin D	2	0	0	0
TOTAL	65	8	6	102

TOXICOSES

(Continued)

(Lethbridge, Fairview, and Airdrie included)

	FELINE	SWINE	CHICKEN	OTHER
Chlor Hydrocarbon	0	1	0	0
Ethylene Glycol	5	0	0	0
Iron	0	1	0	0
Negative	1	0	0	0
Other	1	3	3	1
Oxalate	3	0	0	0
Sodium Ion	0	7	6	1
Strychnine	2	1	0	2
Sulfa	0	0	1	0
Unknown	3	0	1	1
TOTAL	15	13	11	5

SALMONELLA TABLE 1974 - 1984

POULTRY PARATHYPHOID ISOLATES

Salmonella isolations from poultry submissions and environmental samples including Edmonton, Lethbridge Fairview and Airdire

TYPING	'74	'75	'76	'77	'78	'79	'80	'81	'82	'83	'84
S. agona						2	18	4	2	4	7
S. albany						23	42	2	3		1
S. anatum						1		1			1
S. arizona						1	14	5	11	9	11
S. bandaka								2			
S. bareilly					2	6					
S. blockley					1	1					
S. california			1	1		4	46	8	18	3	
S. carrau								4			
S. cerro		3		5	1	2	15	9			
S. derby								1			
S. eimsbuettel							24	1			
S. enteritidis						1	1	2	3	7	4
S. hadar							1				
S. haardt				1	2	24	4	3	1	2	
S. havana							1	5			
S. heidelberg	5		3	16		21	15	5	1	9	5
S. indiana			2	2							
S. infantis	1	2	13	6	10	52	118	47	25	21	9
S. java							4				
S. johannesburg			2								
S. kentucky						1		13	16		
S. kottbus		1	2	1							
S. krusei						1					
S. landau						1					
S. lille							1				
S. litchfield						1	1	13	4	2	
S. manhattan			1	1							3
S. minnesota					1						
S. molade								3			
S. montevideo			1	2		5	33	1	5	3	2
S. muenster								1			
S. nienstedten				5	3	18	26	31	5	8	7
S. newington		1	1	3			2				
S. newport			1		1	7					
S. ohio			4				3				1
S. oranienburg					3	4			2		
S. rubislaw									1	1	

SALMONELLA TABLE CONTINUED

TYPING	'74	'75	'76	'77	'78	'79	'80	'81	'82	'83	'84
S. saint paul	1		2		1	43	11	15	5	6	
S. schwarzengrund						6	2	9	6	6	
S. senftenberg									2	2	
S. singapore						1		5			
S. species								1		1	
S. tennessee			1	1		11		1			
S. thompson	1	1	4	1	3	13	8	1			
S. typhimurium	11	11	8	10	36	39	68	8	35	31	28
S. untyped											17
S. urbana							1				
S. verchow							1				
S. worthington		1							1		
Subgenus r1:12											1
TOTALS	19	20	46	55	64	289	460	201	146	116	97

POULTRY HEALTH PROGRAM

REGIONAL LABS	REPLACEMENT SAMPLES	BROODING SAMPLES	LAYING SAMPLES	1ST HATCH SAMPLES	TOTAL
TOTAL					
No. of Submissions	99		117	108	324
No. of positives (+)	10		29	8	47
% positive	10.1		24.8	7.4	14.5

SUMMARY OF ISOLATES IN ORDER OF MOST ISOLATED

REPLACEMENT SAMPLES	LAYING SAMPLES	1ST HATCH SAMPLES
S. eimsbuettel	S. agona	S. albany
S. typhimurium (3)	S. albany (2)	S. enteridites (2)
	S. infantis (11)	S. infantis (3)
	S. nienstedten (6)	S. typhimurium (2)
S. (not typed) (6)	S. ohio	
	S. schwarzengrund	
	S. typhimurium (3)	
	S. (not typed) (4)	

NEOPLASMS

(Lethbridge, Fairview, and Airdrie included)

	BOVINE	OVINE	EQUINE	CANINE
Adenocarcinoma	9	9	3	0
Biliary	1	0	0	0
Mammary	0	0	0	23
Perianal	0	0	0	2
Sebaceous	0	0	0	1
Undifferentiated	1	0	0	1
Adenoma	2	3	2	5
Basal Cell	0	0	0	2
Interstitial Cell	0	0	1	1
Mammary	0	0	0	10
Perianal Gland	0	0	0	24
Sebaceous	0	0	0	15
Sweat Gland	0	0	0	1
Basal Cell Tumor	1	0	3	15
Carcinoma	0	0	2	5
Squamous	30	0	15	10
Undifferentiated	0	0	0	1
Chromdroma	0	0	1	0
Chrondrosarcoma	0	0	0	3
Ependymoma	1	0	1	0
Epidermal Inclusion Cyst	1	0	0	3
Epithelioma	0	0	0	6
Epulis	0	0	0	17
Fibroma	9	0	7	5
Fibropapilloma	7	0	1	0
Fibrosarcoma	1	0	0	6
Granulosa Cell	1	0	2	1
Hemangioma	3	0	5	9
Hemangiopericytoma	0	0	0	13

NEOPLASMS

(Lethbridge, Fairview, and Airdire included)

	BOVINE	OVINE	EQUINE	CANINE
Hemangiosarcoma	2	0	0	15
Hepatoma	0	0	0	1
Histiocytoma	0	0	0	31
Interstitial Cell Tumor	0	0	0	1
Keratoacanthoma	0	0	0	4
Leiomyoma	1	0	0	4
Leiomysarcoma	0	0	0	2
Lipoma	1	0	0	14
Lymphosarcoma	22	0	1	13
Matocytoma	0	0	1	25
Melanoma	4	0	13	9
Malignant	0	0	1	3
Mesothelioma	2	1	0	0
Mixed Mammary	0	0	0	28
Myxoma	1	0	0	4
Neurofibroma	0	0	2	0
Nevus	0	0	0	2
Odontoma	1	0	0	0
Osteoma	1	0	0	0
Osteosarcoma	0	0	0	1
Other	0	0	5	9
Papilloma	10	0	5	4
Polyp	0	0	1	2

NEOPLASMS

(Lethbridge, Fairview, and Airdrie included)

	BOVINE	OVINE	EQUINE	CANINE
Rhabdomyosarcoma	0	0	0	2
Sarcoid	1	0	74	0
Sarcoma	2	0	1	3
Undifferentiated	0	0	1	7
Sertoli Cell Tumor	0	0	1	5
Synovioma	0	0	0	1
Trichoepithelioma	0	0	0	7
TOTAL	114	13	148	321

NEOPLASMS

(Continued)

(Lethbridge, Fairview and Airdrie included)

	FELINE	LAB ANIMALS	CAPRINE	SWINE	OTHER
Adenocarcoma	4	1	0	0	0
Intestine	2	0	0	0	0
Mammary	6	1	0	0	0
Sebaceous	1	0	0	0	1
Sweat Gland	3	0	0	0	0
Uterus	0	1	0	0	0
Adenoma	4	1	0	0	1
Sebaceous	0	0	0	0	1
Ceruminous Gland	1	0	0	0	0
Basal Cell Tumor	2	0	0	0	0
Carcinoma	0	1	0	0	0
Squamous Cell	1	0	0	0	0
Undifferentiated	1	0	0	0	0
Ependymoma	0	0	0	1	0
Fibroma	2	0	1	0	3
Fibroadenoma	0	1	0	0	0
Fibrosarcoma	1	0	0	0	1
Lipoma	1	0	0	0	1
Lymphosarcoma	4	2	1	2	3
Mastocytoma	1	0	0	0	0
Melanoma	2	0	0	0	1
Malignant	2	0	0	0	0
Other	2	0	0	1	0
Pheochromocytoma	0	0	0	0	1
Rhabdomyosarcoma	1	0	0	0	0
Sarcoma					
Reticulum Cell	0	0	0	0	1
Undifferentiated	1	0	0	0	0
TOTAL	42	8	2	4	14